

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	1
		ILLINOIS	CONTRACT NO. 99678	

CONTRACT NO. 99678



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	October 15th 2025 <i>Bill J. Dankiewicz</i> PULASKI COUNTY ENGINEER
PASSED	October 21 2025 <i>[Signature]</i> DISTRICT ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED UPON LIMITED REVIEW	October 21 2025 <i>Lawrence J. [Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS REGION 5 ENGINEER



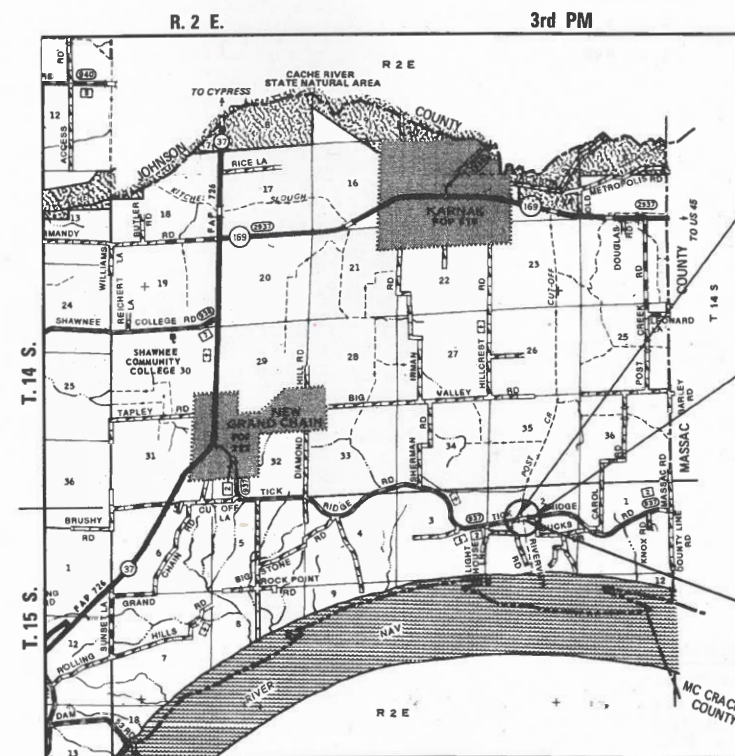
Kermit B. Christmann DATE: 7/9/2025
KERMIT B. CHRISTMANN, P.E., S.E.
REGISTERED PROFESSIONAL
ENGINEER IN ILLINOIS, NO. 062-073152

EXPIRES: NOVEMBER 30, 2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS SPECIAL BRIDGE PROGRAM

DETAIL PLANS FOR
FAS 937 (CH 2 / TICK RIDGE ROAD)
OVER POST CREEK CUTOFF
SECTION 12-00071-00-BR
PROJECT 1 FDA (058)
PULASKI COUNTY

JOB NO. C-99-528-13



SECTION 12-00071-00-BR
BEGINS STA 28+90

SECTION 12-00071-00-BR
ENDS STA 37+90

PROJECT LOCATION

EXISTING STRUCTURE NO. 077-3000
PROPOSED STRUCTURE NO. 077-3145
STATION 33+06.00
THREE SPAN, PRECAST PRESTRESSED
CONCRETE I-BEAMS (54" DEPTH) ON
SPILL THRU PILE BENT INTEGRAL
ABUTMENTS & PIERS SUPPORTED ON
DRILLED CONCRETE SHAFTS. THE
PROPOSED STRUCTURE MEASURES
274'-0" BACK TO BACK OF ABUTMENTS
WITH A 28'-0" CLEAR ROADWAY WIDTH.

LOCATION MAP

GROSS LENGTH = 900 FT. = 0.170 MILE
NET LENGTH = 900 FT. = 0.170 MILE

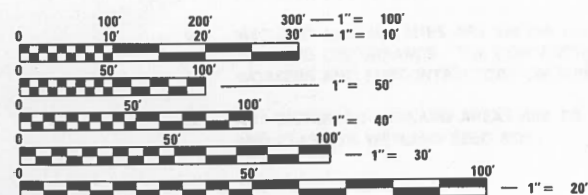
INDEX OF SHEETS

01-16-2026 LETTING ITEM 177

- COVER
- GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS
- SUMMARY OF QUANTITIES
- TYPICAL ROADWAY SECTIONS
- SCHEDULE OF QUANTITIES
- ALIGNMENT, TIES AND BENCHMARKS
- PLAN REMOVALS
- PLAN AND PROFILE EXISTING & PROPOSED ROADWAY
- PAVEMENT MARKING
- DETOUR MAP
- EROSION CONTROL
- CONSTRUCTION DETAILS
- GENERAL PLAN & ELEVATION
- GENERAL DATA
- FOOTING PLAN
- TOP OF SLAB ELEVATIONS
- TOP OF WEST APPROACH SLAB ELEVATIONS
- TOP OF EAST APPROACH SLAB ELEVATIONS
- SUPERSTRUCTURE
- SUPERSTRUCTURE DETAILS
- ABUTMENT DIAPHRAGM DETAILS
- PIER DIAPHRAGM DETAILS
- PRECAST BRIGE APPROACH SLAB
- PREFORMED JOINT STRIP SEAL
- DRAINAGE SCUPPER, DS-11
- FRAMING PLAN
- 54" PPC I-BEAM - SPANS 1 & 3
- 54" PPC I-BEAM - SPAN 2
- 54" PPC I-BEAM DETAILS
- WEST ABUTMENT
- EAST ABUTMENT
- PIER 1
- PIER 2
- HP PILE DETAILS
- BAR SPlicer ASSEMBLY AND MECHANICAL SPlicer DETAILS
- SOIL BORING LOGS
- SN 077-3000 EXISTING STRUCTURE PLANS
- CROSS SECTIONS EXISTING & PROPOSED ROADWAY

DESIGN CLASSIFICATION

MAJOR COLLECTOR (NON-URBAN)	ADT = 400-750
EXISTING ADT	= 550 (2018)
DESIGN ADT	= 725 (2041)
DESIGN SPEED	= 50 MPH



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

HMG
ENGINEERS

IL PROF. DESIGN FIRM NO. 184.000899
EXPIRES 04/30/2027

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1.

ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2.

THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY HAVE BEEN CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITIES. THE APPROXIMATE LOCATIONS OF THE KNOWN UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN.
3.

THE CONTRACTOR SHALL GIVE AT LEAST TWO WEEKS NOTICE BEFORE BEGINNING CONSTRUCTION SO THE ENGINEER MAY GIVE ADEQUATE NOTICE TO ALL EMERGENCY, SCHOOL AND POSTAL SERVICES.
4.

THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION.
5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POSITIVE DRAINAGE IN THE DISTURBED AREAS, TO THE SATISFACTION OF THE ENGINEER. ANY GRADING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6.

IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
7.

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE, IN THE ORIGINAL STATE, AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8.

THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN THE CALCULATION OF THE PLAN QUANTITIES:

AGGREGATE BASE/SUBBASE GRANULAR MATERIAL	2.05 TONS/CY
RIPRAP	1.6 TONS/CY
TEMPORARY DITCH CHECKS	11 FT/DITCH CHECK
TEMPORARY EROSION CONTROL SEEDING	2 APPLICATIONS OVER SEEDING AREA
HOT-MIX ASPHALT	2.016 TONS/CY = 112 LBS/SY/IN

COMMITMENTS

THE COUNTY HAS MADE THE FOLLOWING COMMITMENTS FOR THE PROJECT. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE. THE FOLLOWING IS A GENERAL SUMMARY AND DOES NOT CONTAIN FULL DETAILS. THE CONTRACTOR SHALL ADHERE TO THESE CONDITIONS.

1.

A TREE CLEARING RESTRICTION FOR ANY TREE THREE (3) INCHES OR GREATER IN DIAMETER MEASURED AT BREAST HEIGHT IS PRESENT BETWEEN APRIL 1 AND SEPTEMBER 30 DUE TO POTENTIAL ENDANGERED BAT HABITATS.
2.

WETLAND AND INAI SITES ARE SHOWN ON THE PLANS AND SHALL BE CLEARLY MARKED TO AVOID DISTURBANCE. THE CONTRACTOR SHALL NOTE THESE AREAS AND ADVISE ALL WORKERS AND SUBCONTRACTORS ON THIS PROJECT TO AVOID THESE AREAS.
3.

ANY DISTURBED WETLAND AREAS ARE TO BE RE-SEEDED UTILIZING AN IDOT CLASS 4 AND CLASS 5B WETLAND SEED MIX.

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
606401-02	PAVED DITCH
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-11	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)

KNOWN UTILITY COMPANIES

COMMUNICATIONS

FRONTIER COMMUNICATIONS (SOUTH)
MARION, IL. 62959
(815) 895-1515
ATTN: KALIN HINSHAW

ELECTRIC

SOUTHERN ILLINOIS ELECTRIC CO-OP
DONGOLA, IL. 62926
(618) 827-3555
ATTN: MICHAEL LOGEMAN

WATER

FORT MASSAC WATER DISTRICT
METROPOLIS, IL. 62960
(618) 543-7475
ATTN: DAVID TRAVIS

MODEL Defaul
FILE NAME: 1017073 PulaskiCo CH32025-PSE Update.dwg(CAD Sheets)0713000 02 General 1073.lay

<div><div>HMG</div><div>ENGINEERS</div></div> <div>IL PROF. DESIGN FIRM NO. 184.000899</div>	<div><div>HMG ENGINEERS, INC.</div><div>9360 HOLY CROSS LANE</div><div>BREESE, ILLINOIS 62230</div><div>888.HMG.ENGR</div></div>	USER NAME = bchristmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, HIGHWAY STANDARDS AND COMMITMENTS				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -	937						12-00071-00-BR	PULASKI	58	2	
	PLOT SCALE = 2.0000 " / in.	CHECKED -	REVISED -	CONTRACT NO. 99678										
	PLOT DATE = 10/7/2025	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										
		SCALE:		SHEET 1 OF 1 SHEETS	STA. TO STA.									

MODEL 06/01/18
FILE 12/01/18 12:07 PM
PULASKI COUNTY, ILLINOIS
PROJECT NO. 12-00071-00-BR
SHEET NO. 58 OF 58
DATE 12/1/2025

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
20200100	EARTH EXCAVATION	CU YD	1,230	1,230
20400800	FURNISHED EXCAVATION	CU YD	775	775
20800150	TRENCH BACKFILL	CU YD	26	26
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68
25100115	MULCH, METHOD 2	ACRE	0.50	0.50
25100630	EROSION CONTROL BLANKET	SQ YD	555	555
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150
28000305	TEMPORARY DITCH CHECKS	FOOT	407	407
28000400	PERIMETER EROSION BARRIER	FOOT	286	286
28000500	INLET AND PIPE PROTECTION	EACH	1	1
28100205	STONE RIPRAP, CLASS A3	TON	41	41
28200200	FILTER FABRIC	SQ YD	76	76
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	29	29
35100100	AGGREGATE BASE COURSE, TYPE A	TON	776	776
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,830	3,830
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	346	346
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	388	388

*SPECIALTY ITEM

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	130	130
42000060	WELDED WIRE REINFORCEMENT	SQ YD	74	74
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	97	97
42001300	PROTECTIVE COAT	SQ YD	765	765
44000100	PAVEMENT REMOVAL	SQ YD	1,261	1,261
44004000	PAVED DITCH REMOVAL	FOOT	496	496
44004250	PAVED SHOULDER REMOVAL	SQ YD	275	275
48100100	AGGREGATE SHOULDERS, TYPE A	TON	45	45
48203100	HOT-MIX ASPHALT SHOULDERS	TON	118	118
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	50	50
50200100	STRUCTURE EXCAVATION	CU YD	162	162
50300100	FLOOR DRAINS	EACH	10	10
50300225	CONCRETE STRUCTURES	CU YD	349.9	349.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	302.8	302.8
50300260	BRIDGE DECK GROOVING	SQ YD	960	960
50300300	PROTECTIVE COAT	SQ YD	1,314	1,314
50401105	F & E PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	1,077	1,077
50800105	REINFORCEMENT BARS	POUND	50,530	50,530
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	187,080	187,080



HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
ILL. PROF. DESIGN FIRM NO. 184.000899

USER NAME	hch/stmarn
PLOT SCALE	1" = 2,000' / 1" = 100'
PLOT DATE	12-1-2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 1 OF 2 SHEETS	STA.	TOT. STA.
--------	---------------------	------	-----------

F.A.S.
RTE.

937

SECTION

12-00071-00-BR

COUNTY

PULASKI

TOTAL SHEETS

58

SHEET NO.

3

CONTRACT NO. 99678

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
50800530	MECHANICAL SPLICERS	EACH	348	348
51201900	FURNISHING STEEL PILES HP14X89	FOOT	564	564
51202305	DRIVING PILES	FOOT	564	564
51203900	TEST PILE STEEL HP14X89	EACH	2	2
51204650	PILE SHOES	EACH	14	14
51500100	NAME PLATES	EACH	1	1
51602000	PERMANENT CASING	FOOT	167	167
51603000	DRILLED SHAFT IN SOIL	CU YD	122.0	122.0
51604000	DRILLED SHAFT IN ROCK	CU YD	49.4	49.4
52000110	PREFORMED JOINT STRIP SEAL	FOOT	58	58
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	69	69
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	110	110
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	79	79
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	135	135
60617510	PAVED DITCH, TYPE B-30	FOOT	602	602
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100

* SPECIALTY ITEM
0042

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	FUNDING: 80% State, 20% Local
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	291	291
67100100	MOBILIZATION	L SUM	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	12	12
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	32	32
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3,600	3,600
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6	6
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10	10
Z0004552	APPROACH SLAB REMOVAL	SQ YD	84	84
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1
X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	1,008	1,008
X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	6	6
X2010510	CLEARING AND GRUBBING	L SUM	1	1
X2810110	STONE RIPRAP, CLASS A5 (SPECIAL)	SQ YD	3,393	3,393
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	200	200
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1,690	1,690
X5110306	SLOPE WALL BREAKING	SQ YD	3,393	3,393
# Z0076600	TRAINEES	Hour	1,000	
X5230174	DRAINAGE SCUPPERS, DS-11	EACH	4	4
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1,000	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

MODEL: D:\envi\h
FILE NAME: H:\0712 PULASKI\CH2202\PS-UPDATES\AD SHEETS\0723000_03.tbl SURF.TD3 (10/1)

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = bchrstmann

FLOT SCALE = 2.0000 1/16"

FLOT DATE = 10-7-2025

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE 937

SECTION 12-00071-00-BR

COUNTY PULASKI

TOTAL SHEETS 58

SHEET NO. 4

ILLINOIS FED. AID PROJECT

PROPOSED TYPICAL SECTION NOTES:

THE PROPOSED PAVEMENT WIDTH WILL VARY FROM THE EXISTING WIDTH (10'-0" ±) TO THE PROPOSED WIDTH (13'-0") WITHIN THE 50'-0" TRANSITIONS AT THE ENDS OF THE PROJECT.

WITHIN THE 50'-0" TRANSITIONS AT THE ENDS OF THE PROJECT, THE PROPOSED HMA SHOULDER WILL TRANSITION FROM THE EXISTING WIDTH (0'-0") TO THE PROPOSED WIDTH (2'-0"). THE PROPOSED AGG SHOULDER (2'-0") SHALL BE CONSTRUCTED TO THE ENDS OF THE PROJECT EXCEPT ON THE NORTH SIDE OF THE ROAD, EAST SIDE OF THE BRIDGE.

NEAR THE PROPOSED GUARDRAIL, THE PROPOSED AGG SHOULDER WILL BE ELIMINATED AND REPLACED WITH A FULLY PAVED HMA SHOULDER. SEE PLAN AND PROFILE SHEETS FOR LIMITS.

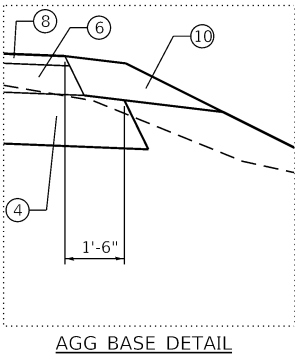
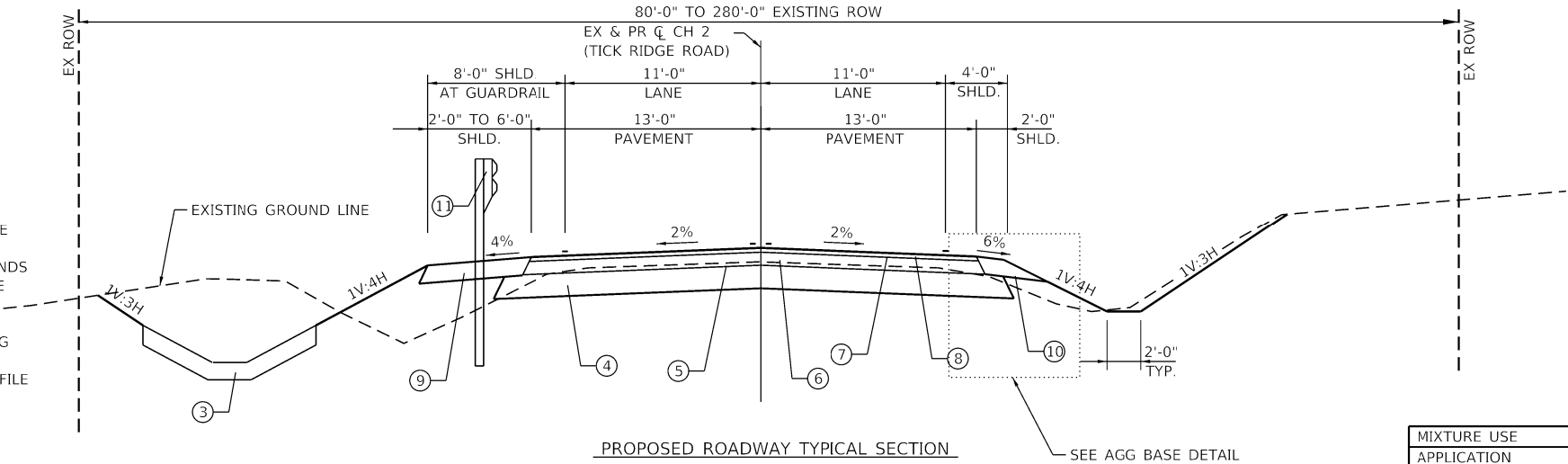
PROPOSED GUARDRAIL MAY BE LOCATED ON ONE SIDE, BOTH SIDES OR NEITHER SIDE.

PROPOSED FORESLOPES TRANSITION FROM 1V:4H AT THE END OF THE APPROACH SLAB TO 1V:2H AT THE BACK OF THE ABUTMENT.

PROPOSED PAVED DITCHES ARE LOCATED FROM STA 34+41.00 TO STA 37+40.00 LEFT AND RIGHT.

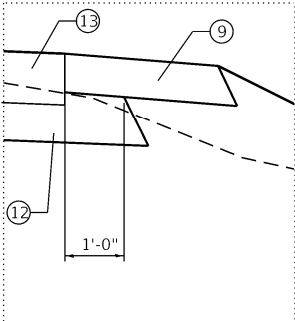
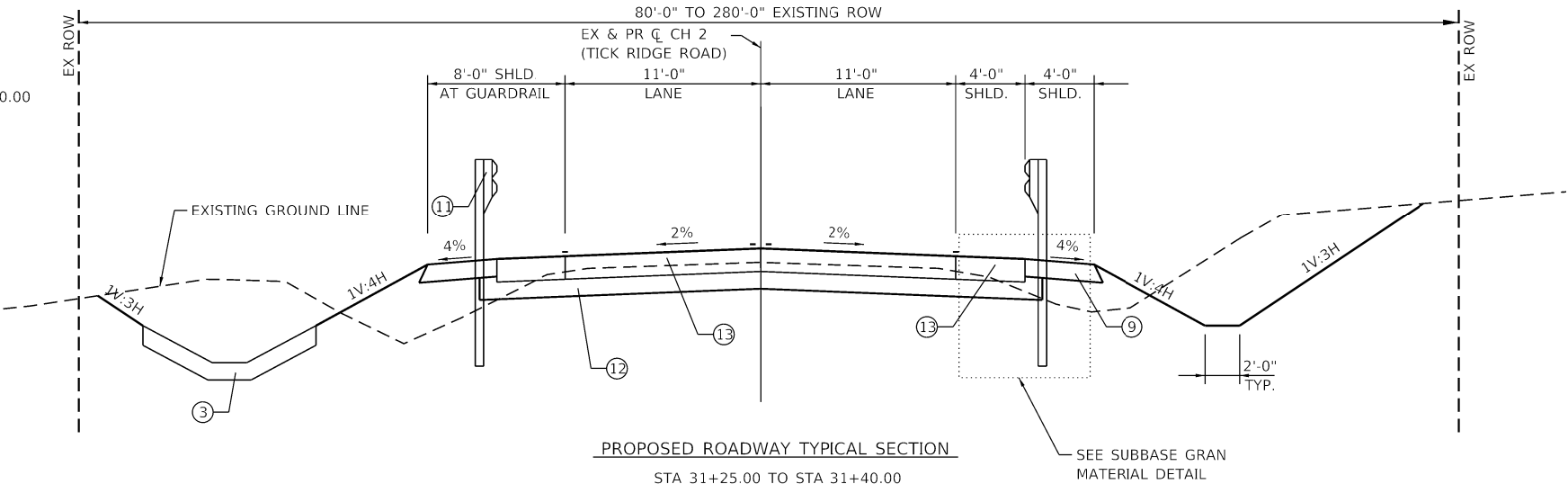
PROPOSED STRUCTURE OMISSION STA 31+69.00 TO STA 34+43.00.

SEE STRUCTURE PLANS FOR CONSTRUCTION OF THE BRIDGE APPROACH SLABS TERMINATING AT STA 31+40.00 AND STA 34+72.00.



MIXTURE USE	SURFACE	BINDER	SHOULDERS
APPLICATION	HMA SC, IL-9.5, "C", N70	HMA BC, IL-19.0, N70	HMA SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIF	SEE SPECIF	SEE SPECIF
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL 9.5	IL 19.0	IL 19.0
FRICTION AGG	MIXTURE "C"		
QUALITY MGMT PROG.	QC/QA	QC/QA	QC/QA

HMA MIXTURE COMPOSITION



SUBBASE GRAN MATERIAL DETAIL

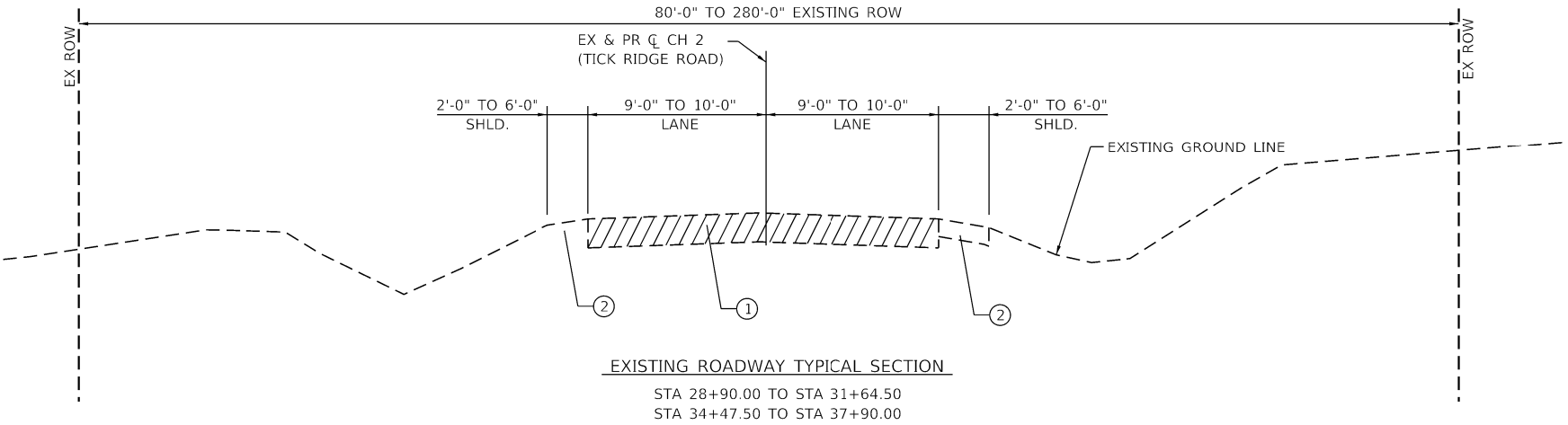
LEGEND

- 1 EX ROADWAY (8" TO 15" HMA PAVEMENT)
- 2 EX SHOULDER (EARTH AND PCC)
- 3 PR PAVED DITCH, TY B-30
- 4 PR AGG BASE CSE, TY A (8")
- 5 PR BIT MAT (PRIME COAT)
- 6 PR HMA BIND CSE, IL-19.0, N70 (4.5")
- 7 PR BIT MAT (TACK COAT)
- 8 PR HMA SURF CSE, IL-9.5, MIX "C", N70 (1.5")
- 9 PR HMA SHLD (6")
- 10 PR AGG SHLD, TY A (6")
- 11 PR SPBGR AND TBT
- 12 PR SUBBASE GRAN MATERIAL, TY A (6")
- 13 PR PAVT CONNECTOR (PCC) FOR BRIDGE APPR SLAB (8" MIN)

EXISTING TYPICAL SECTION NOTES:

EXISTING PAVEMENT VARIES IN THICKNESS FROM 0'-8" (WEST OF BRIDGE) TO 1'-3" (EAST OF BRIDGE).

EXISTING SHOULDER (PCC) AND EXISTING PAVED DITCH ARE APPROXIMATELY 0'-6" THICK.



MODEL: Default
FILE NAME: IL1073_PulaskiCo_CH22025-PSE_UpdatesCAD_Sheets10772000_05_TypRdwSec_7073.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmarn

DESIGNED -

DRAWN -

CHECKED -

DATE -

PLOT SCALE = 10.0000' f in.

PLOT DATE = 10/7/2025

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL ROADWAY SECTIONS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	5
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION					A	B	C = 0.75 x B	D	E = C - D
					PAVEMENT , PAVED SHOULDER AND PAVED DITCH	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE/LOSS	REQUIRED FILL	BALANCE : WASTE (+) OR SHORTAGE (-)
					CU YD	CU YD	CU YD	CU YD	CU YD
STA 28+90.00	TO	STA 30+00.00			103.2	191.1	143.3	138.6	4.7
STA 30+00.00	TO	STA 31+69.00			140.7	97.0	72.8	768.3	-695.6
STA 31+69.00	TO	STA 34+43.00	BRIDGE		-----	-----	-----	-----	-----
STA 34+43.00	TO	STA 36+75.00			192.3	717.3	538.0	703.0	-165.0
STA 36+75.00	TO	STA 37+90.00			57.3	223.2	167.4	84.3	83.1
TOTAL					493.5	1,228.6	921.5	1,694.2	-772.8
USE					495	1,230	925	1,695	-775

NOTES:

SCHEDULE ASSUMES A 25% SHRINKAGE/LOSS FACTOR FOR EARTH EXCAVATION

COLUMN "A" - ESTIMATED VOLUME OF MATERIAL PRODUCED BY THE REMOVAL OF THE EXISTING PAVEMENT, THE EXISTING PAVED SHOULDER AND THE EXISTING PAVED DITCH. THIS VOLUME HAS BEEN CALCULATED USING THE PAVEMENT THICKNESSES DEFINED IN THE TYPICAL SECTIONS AND A THICKNESS OF 0'-6" FOR THE PAVED SHOULDER AND PAVED DITCH (BASED ON OLD PLANS). THIS VOLUME ALSO HAS BEEN INCLUDED IN COLUMN "D" SUCH THAT THE SITE IS BACK TO THE ORIGINAL ELEVATION AFTER THE REMOVAL OF THE AFOREMENTIONED ITEMS.

COLUMN "B" - ESTIMATED VOLUME OF CUT MATERIAL PRODUCED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS VOLUME HAS BEEN CALCULATED USING CROSS-SECTION END AREAS.

COLUMN "C" - ESTIMATED VOLUME OF CUT MATERIAL ADJUSTED FOR SHRINKAGE/LOSS AND SUITABLE FOR EMBANKMENT.

COLUMN "D" - ESTIMATED VOLUME OF FILL MATERIAL REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THIS VOLUME HAS BEEN CALCULATED USING CROSS-SECTION END AREAS.

COLUMN "E" - BALANCE OF ADJUSTED CUT MATERIAL AND FILL MATERIAL.

REMOVAL SCHEDULE

LOCATION	CLEARING AND GRUBBING	PAVEMENT REMOVAL	GUARDRAIL REMOVAL	PIPE CULVERT REMOVAL	PAVED SHOULDER REMOVAL	PAVED DITCH REMOVAL	APPROACH SLAB REMOVAL
	L SUM	SQ YD	FOOT	FOOT	SQ YD	FOOT	SQ YD
STA 29+15.50 RT TO STA 31+69.00 RT	0.08 ACRES						
STA 30+90.00 LT TO STA 31+69.00 LT	0.03 ACRES						
STA 34+43.00 RT TO STA 36+20.00 RT	0.08 ACRES						
STA 34+54.5 43.0' LT	6 UNITS						
STA 34+57.5 35.9' LT	10 UNITS						
STA 34+57.6 36.8' LT	6 UNITS						
STA 35+60.2 36.6' LT	8 UNITS						
STA 35+65.5 38.9' LT	6 UNITS						
STA 35+66.8 34.8' LT	12 UNITS						
STA 35+67.8 36.9' LT	6 UNITS						
STA 35+69.7 35.9' LT	6 UNITS						
STA 35+71.2 35.1' LT	10 UNITS						
STA 31+42.7 17.8' LT (NO PASSING ZONE)							
STA 34+66.7 21.8' RT (NO PASSING ZONE)							
STA 28+90.00 TO STA 31+64.00		573.8	208.2	49.6		40.1	43.4
STA 34+47.00 TO STA 37+90.00		686.5	81.9		274.2	455.1	40.2
TOTAL	1	1260.3	290.1	49.6	274.2	495.2	83.7
USE	1	1261	291	50	275	496	84

NOTES:

CLEARING AND GRUBBING CONSISTS OF CLEANING UP THE DEBRIS (STUMPS, TREES, ETC.). INFORMATION SHOWN (ACRES, UNITS) ON THE SCHEDULE IS FOR INFORMATION ONLY.

EROSION CONTROL AND SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD '2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	STONE RIPRAP, CLASS A3	FILTER FABRIC
	ACRE	POUND	POUND	POUND	ACRE	SQ YD	POUND	FOOT	FOOT	EACH	TON	SQ YD
STA 28+90.00 LT TO STA 31+69.00 LT	0.16	14.3	14.3	14.3	0.11	232.4	31.8	88.0			16.6	31.1
STA 28+90.00 RT TO STA 31+69.00 RT	0.13	11.8	11.8	11.8	0.09	232.0	26.3	77.0	285.7	1	15.3	28.8
STA 34+43.00 LT TO STA 37+90.00 LT	0.13	12.0	12.0	12.0	0.12	44.7	26.7	121.0			4.1	7.6
STA 34+43.00 RT TO STA 37+90.00 RT	0.12	10.5	10.5	10.5	0.11	44.6	23.3	121.0			4.2	7.8
TOTAL	0.54	48.7	48.7	48.7	0.43	553.7	108.1	407.0	285.7	1	40.2	75.3
USE	0.75	67.5	67.5	67.5	0.50	555	150	407	286	1	41	76

PAVING SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE A	AGGREGATE BASE COURSE, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HMA BINDER COURSE, 1L-19.0, N70	HMA SURFACE COURSE, 1L-9.5, MIX "C", N70	WELDED WIRE REINFORCEMENT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT
	TON	TON	POUND	POUND	TON	TON	SQ YD	SQ YD	SQ YD
STA 28+90.00 TO STA 31+25.00		337.8	1668.3	150.6	168.7	56.2			
STA 31+25.00 TO STA 31+69.00	14.1						36.7	48.3	48.3
BRIDGE OMISSION									
STA 34+43.00 TO STA 34+87.00	14.1						36.7	48.3	48.3
STA 34+87.00 TO STA 37+90.00		437.6	2161.3	195.3	218.7	72.9			
TOTAL	28.2	775.4	3829.6	345.9	387.4	129.1	73.3	96.7	96.7
USE	29	776	3,830	346	388	130	74	97	97

GUARDRAIL SCHEDULE

LOCATION							STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C
							FOOT	EACH	EACH	EACH	CRYSTAL EACH	CRYSTAL EACH
STA	30+67.2	LT	TO	STA	31+56.5	LT		1	1	1	1	
STA	30+17.2	RT	TO	STA	31+56.5	RT	50.0	1	1	1	2	
STA	31+55.0		TO	STA	34+57.0	BRIDGE						10
STA	34+55.5	LT	TO	STA	35+94.8	LT	50.0	1	1	1	2	
STA	34+55.5	RT	TO	STA	35+44.8	RT		1	1	1	1	
TOTAL							100.0	4	4	4	6	10
USE							100.0	4	4	4	6	10

THE SPACING OF THE REFLECTORS (GUARDRAIL AND BARRIER) IS 61'-0" STARTING 50'-0" FROM THE END OF THE PROPOSED GUARDRAIL.

PAVEMENT MARKING AND SIGNING SCHEDULE

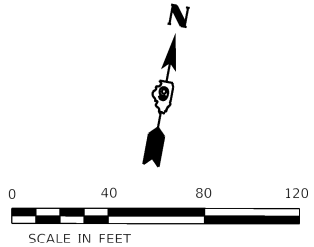
LOCATION	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
	WHITE	YELLOW		
	FOOT	FOOT	SQ FT	FOOT
STA 28+90.00 TO STA 31+25.00	470.0	470.0	6.0	16.0
STA 31+25.00 TO STA 31+69.00	88.0	88.0		
STA 31+69.00 TO STA 34+43.00	548.0	548.0		
STA 34+43.00 TO STA 34+87.00	88.0	88.0		
STA 34+87.00 TO STA 37+90.00	606.0	606.0	6.0	16.0
TOTAL	1800.0	1800.0	12.0	32.0
USE	3,600		12	32

SHOULDER SCHEDULE

LOCATION	AGGREGATE SHOULDERS, TYPE A	HOT-MIX ASPHALT SHOULDERS
	TON	TON
STA 28+90.00 LT TO STA 30+33.00 LT	10.9	
STA 30+33.00 LT TO STA 31+69.00 LT		23.7
STA 28+90.00 RT TO STA 29+83.00 RT	7.1	
STA 29+83.00 RT TO STA 31+69.00 RT		34.9
BRIDGE OMISSION		
STA 34+43.00 LT TO STA 36+29.00 LT		34.9
STA 36+29.00 LT TO STA 37+90.00 LT	10.3	
STA 34+43.00 RT TO STA 35+79.00 RT		23.7
STA 35+79.00 RT TO STA 37+90.00 RT	16.0	
TOTAL	44.3	117.2
USE	45	118

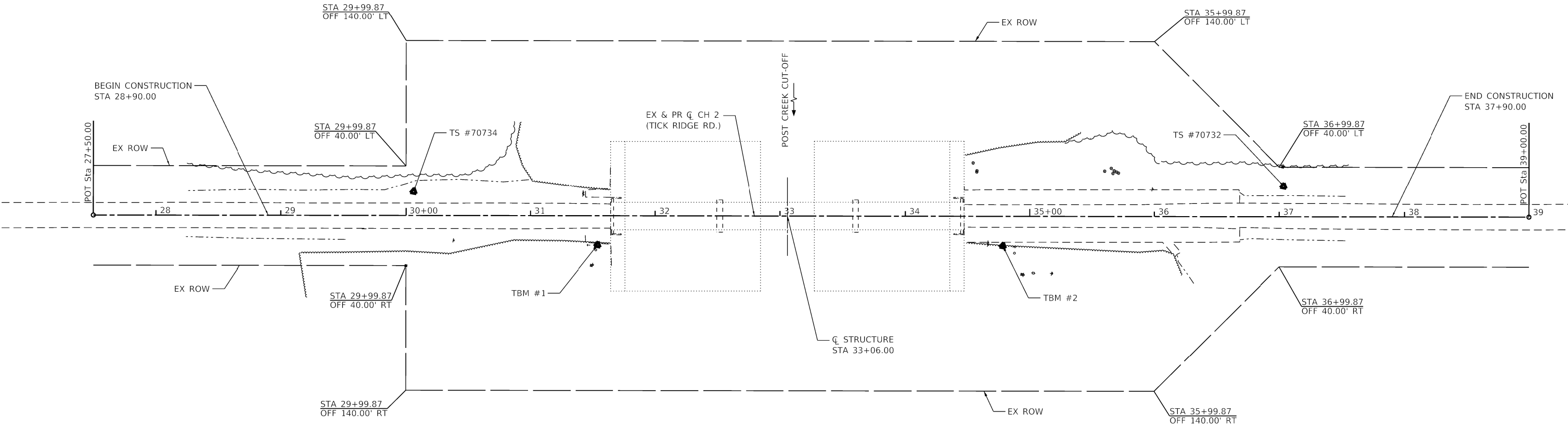
DRAINAGE SCHEDULE

LOCATION										PIPE CULVERT, CLASS A, TYPE 1 30"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	TRENCH BACKFILL	PAVED DITCH, TYPE B-30	PROTECTIVE COAT
										FOOT	EACH	CU YD	FOOT	SQ YD
STA 31+00.00 42.7' LT TO STA 31+00.00 37.9' RT										68.3	2	25.9		
STA 34+41.00 30.4' LT TO STA 37+40.00 20.3' LT													300.8	333.7
STA 34+41.00 30.5' RT TO STA 37+40.00 20.4' RT													300.6	333.6
TOTAL										68.3	2	25.9	601.4	667.3
USE										69	2	26	602	668



TRAVERSE STATION #70734
EL 364.46
STA 30+06.32, OFF 19.25' LT
N=211025.196, E=2647726.265

TRAVERSE STATION #70732
EL 369.34
STA 37+03.35, OFF 24.56' LT
N=211156.840, E=2648410.766



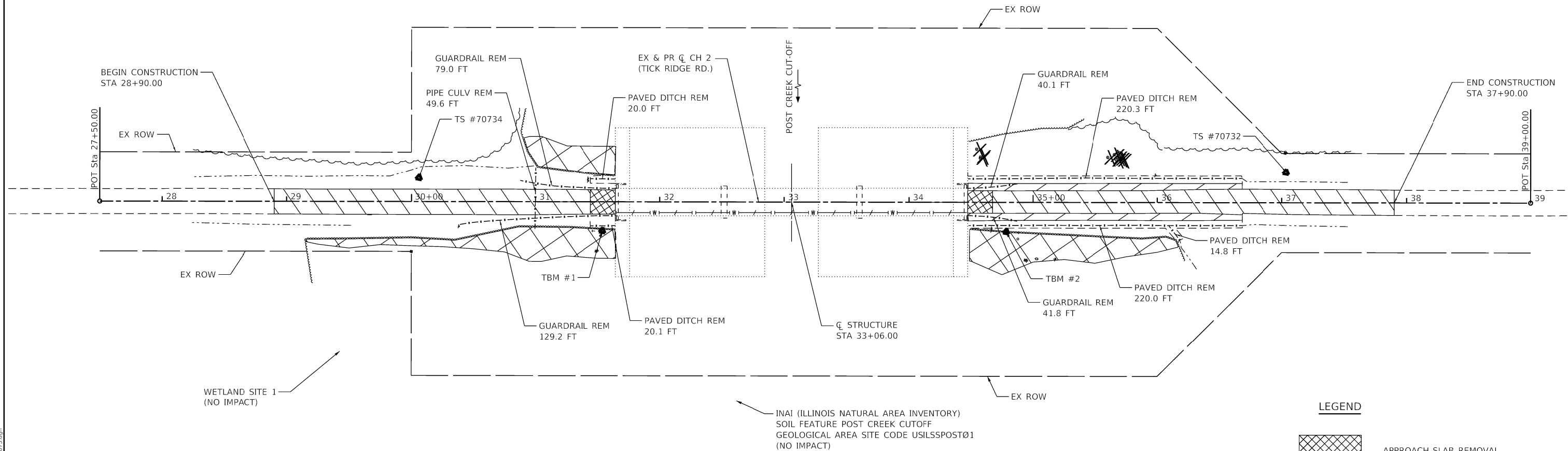
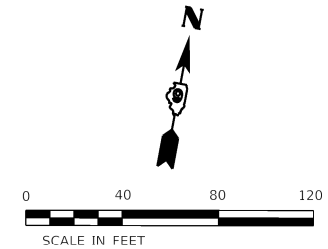
TBM #1 (RR SPIKE IN PP)
EL 364.03
STA 31+53.97, OFF 23.26' RT
N=211010.169, E=2647879.172

TBM #2 (RR SPIKE IN PP)
EL 365.19
STA 34+78.42, OFF 23.64' RT
N=211068.645, E=2648198.305

CENTERLINE SUMMARY		
STATION	NORTHING	EASTING
27+50.00 (POT)	210959.771	2647477.684
39+00.00 (POT)	211168.358	2648608.609

MODEL: Default
FILE: 7073_PulaskiCo_CH2/2025-PSE_Updates/CAD_Sheets/0772000_08_Alignment_Ties_7073.dgn

<div><div><div>HMG</div><div>ENGINEERS</div></div><div><div>IL PROF. DESIGN FIRM NO. 184.000899</div></div></div> <div><div>HMG ENGINEERS, INC.</div><div>9360 HOLY CROSS LANE</div><div>BREESE, ILLINOIS 62230</div><div>888.HMG.ENGR</div></div>	USER NAME = bchristmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED -			937	12-00071-00-BR	PULASKI	58	8			
	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 99678							
	PLOT DATE = 10/7/2025	DATE -	REVISED -										
					SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.			



NOTE:
CONTRACTOR SHALL AVOID ANY ACTIVITIES IN,
OR DISTURBANCE OF, WETLAND AND ILLINOIS
NATURAL AREAS AS SHOWN AND/OR IDENTIFIED
BY THE ENGINEER.

LEGEND	
	APPROACH SLAB REMOVAL
	PAVEMENT REMOVAL
	PAVED SHOULDER REMOVAL
	CLEARING AND GRUBBING (ACRES)
	CLEARING AND GRUBBING (UNITS)
	LINEAR REMOVAL ITEMS

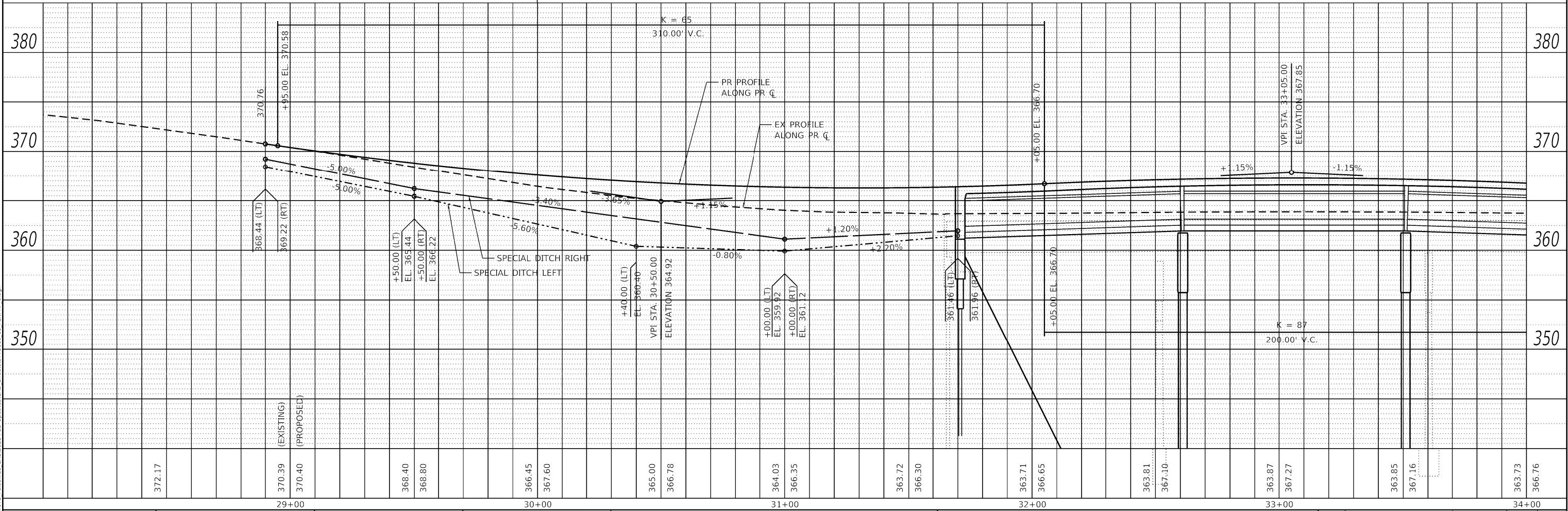
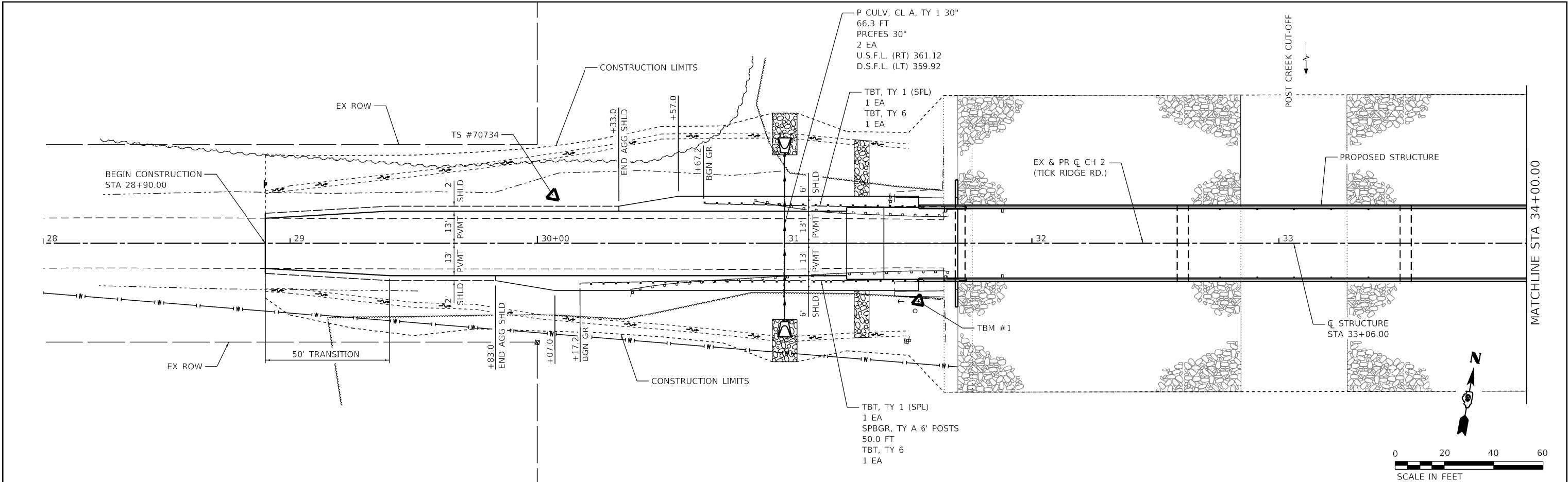
MODEL: Default
FILE NAME: ILL7073_PulaskiCo_CH22025-PSE_UpdatesCAD_Sheet10772000_09_PlanRemovals_7073.dgn

<div>HMG ENGINEERS</div> <div>IL PROF. DESIGN FIRM NO. 184.000899</div>	<div>HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 888.HMG.ENGR</div>	USER NAME = bchristmarn	DESIGNED -	REVISED -	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>PLAN REMOVALS</div>					F.A.S. RTE. 937	SECTION 12-00071-00-BR	COUNTY PULASKI	TOTAL SHEETS 58	SHEET NO. 9
		PLOT SCALE = 80.0000' = 1 in.	DRAWN -	REVISED -							CONTRACT NO. 99678				
		PLOT DATE = 10/7/2025	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT				
			DATE -	REVISED -											
									SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	

PLAN	SURVEYED PLOTTED	ALIGNMENT CHECKED DATE	BY	DATE
NO.	NOTE BOOK	CADD FILE NAME		

PROFILE	SURVEYED PLOTTED	GRADES CHECKED DATE	BY	DATE
NO.	NOTE BOOK	STRUCTURE NOTATIONS CHKD		

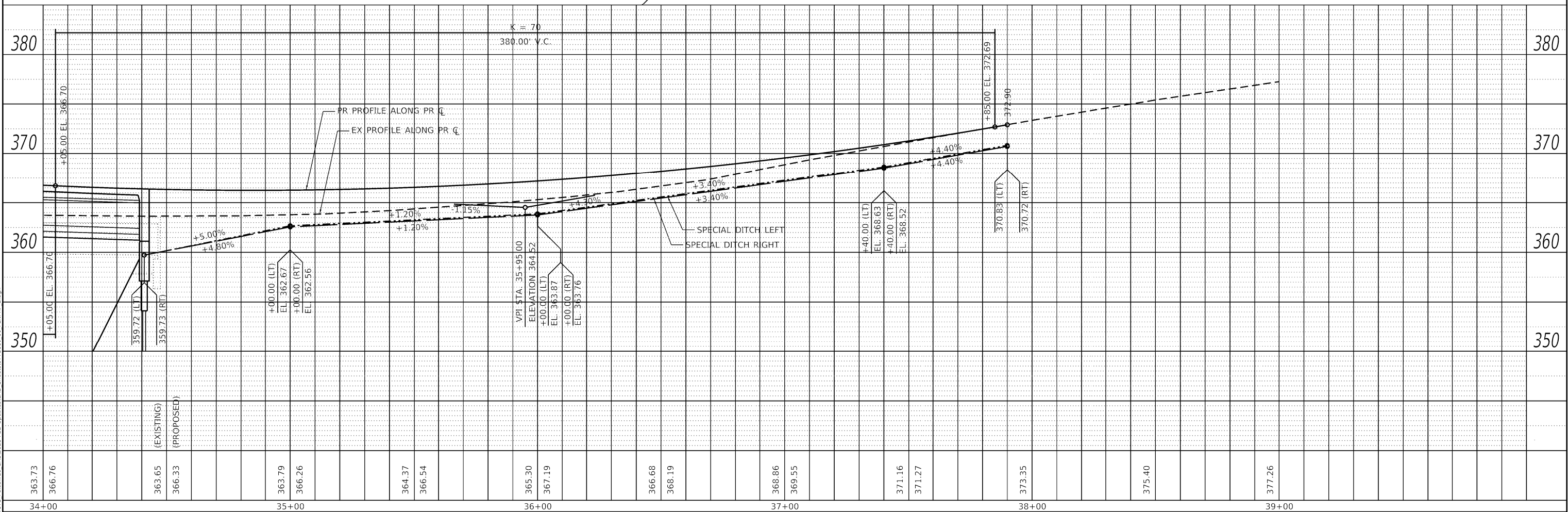
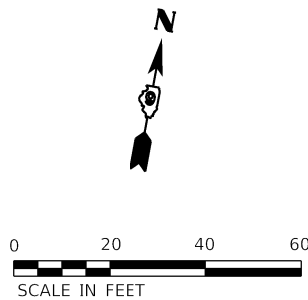
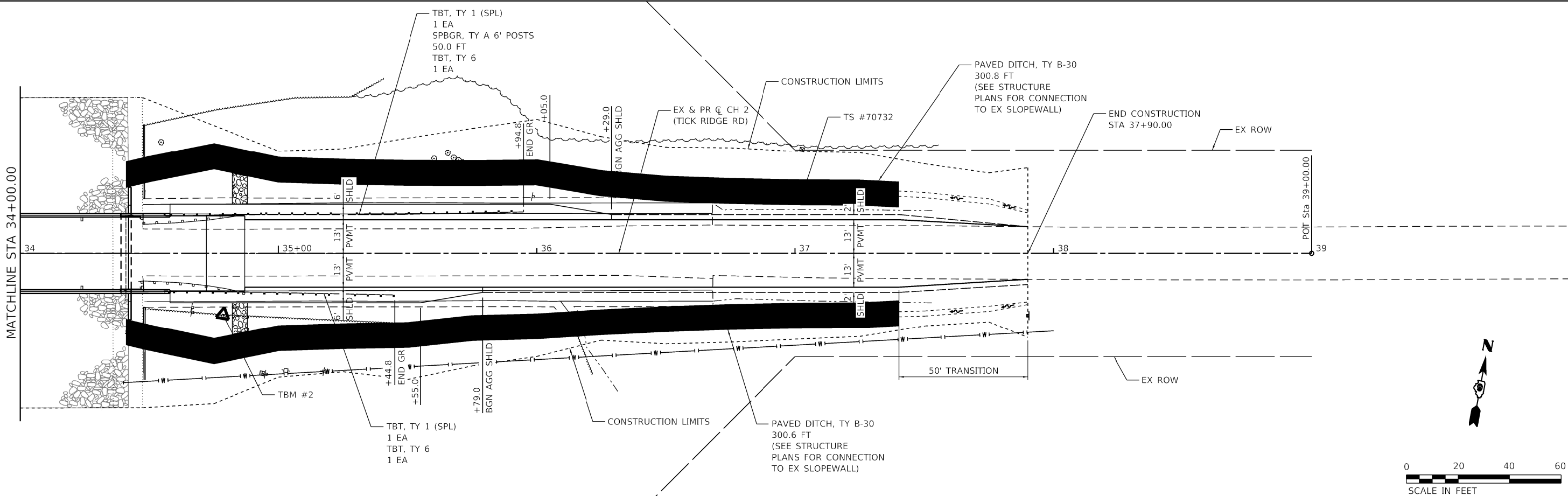
MODEL: Default
FILE NAME: H:\1073 PulaskiCo CH2025 PSE Updates\CAD Sheets\073000 10 PluPRF.dgn



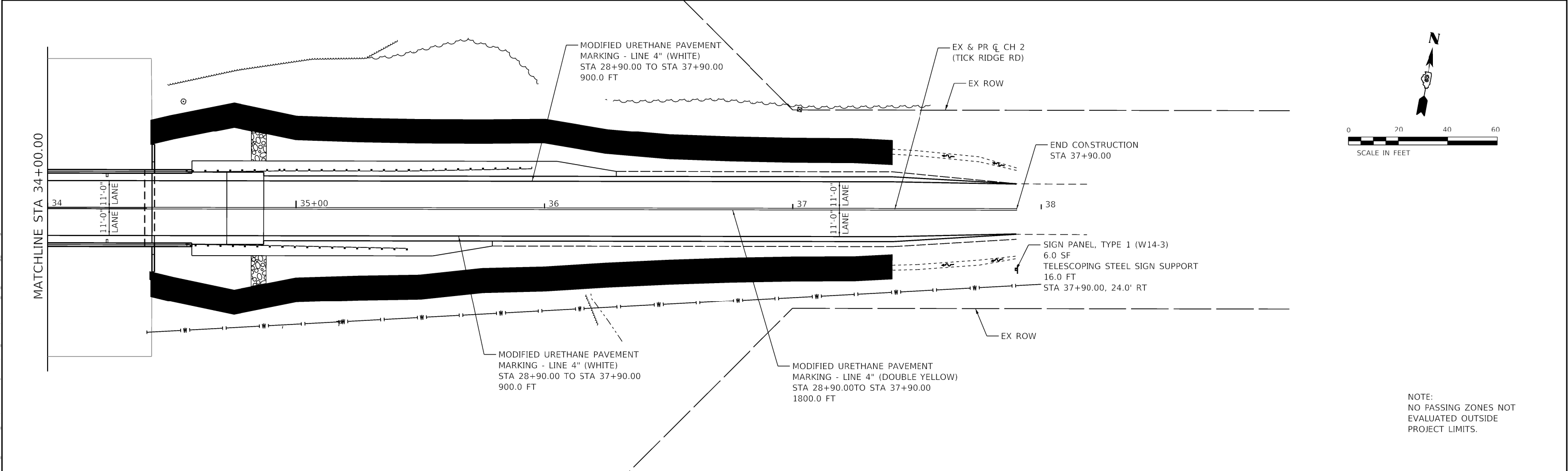
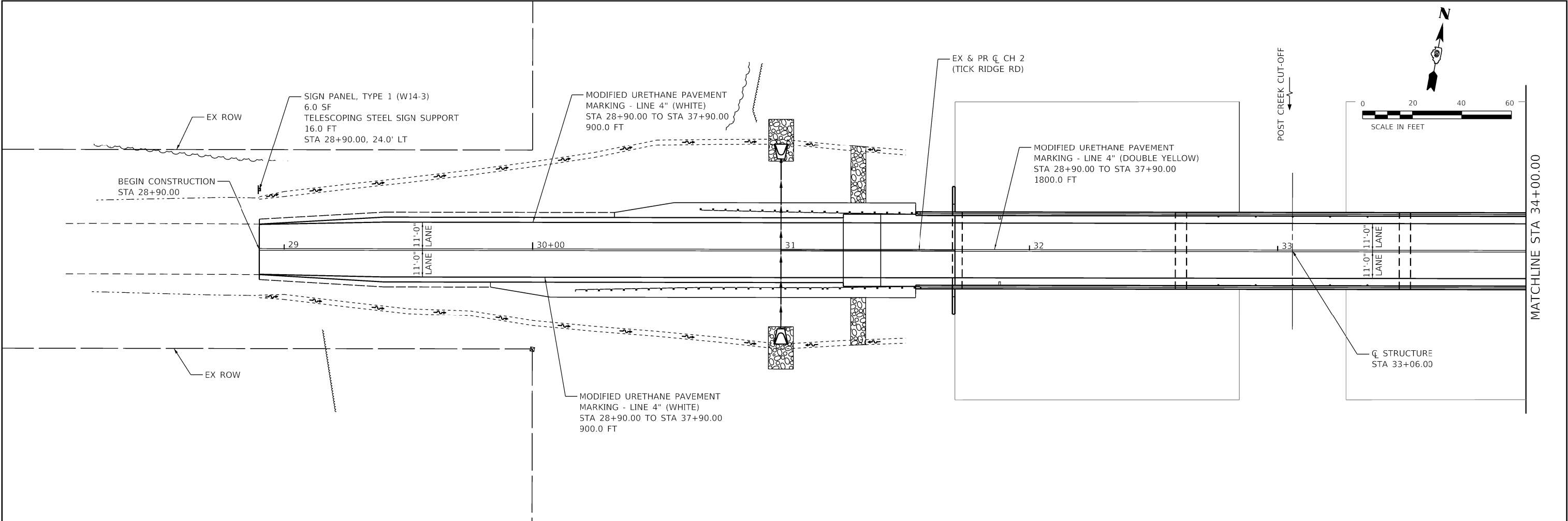
<div><div>HMG</div><div>ENGINEERS</div><div>IL PROF. DESIGN FIRM NO. 184.000899</div></div>	<div>HMG ENGINEERS, INC.</div> <div>9360 HOLY CROSS LANE</div> <div>BREESE, ILLINOIS 62230</div> <div>888.HMG.ENGR</div>	<div>USER NAME = bchristmann</div>	<div>DESIGNED -</div>	<div>REVISED -</div>	<div>STATE OF ILLINOIS</div> <div>DEPARTMENT OF TRANSPORTATION</div>	<div>PLAN AND PROFILE</div> <div>EXISTING & PROPOSED ROADWAY</div>	<div>F.A.S RTE.</div>	<div>SECTION</div>	<div>COUNTY</div>	<div>TOTAL SHEETS</div>	<div>SHEET NO.</div>		
									<div>937</div>	<div>12-00071-00-BR</div>	<div>PULASKI</div>	<div>58</div>	<div>10</div>
	<div>PLOT SCALE = 40.0000' / 1".</div>	<div>DRAWN -</div>	<div>REVISED -</div>	<div>CONTRACT NO. 99678</div>									
	<div>PLOT DATE = 10/7/2025</div>	<div>CHECKED -</div>	<div>REVISED -</div>	<div>SCALE:</div>			<div>SHEET 1 OF 2 SHEETS</div>	<div>STA.</div>	<div>TO STA.</div>				

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK _____	GRADES CHECKED _____		
NO. _____	B.M. NOTED _____		
	STRUCTURE NOTAT'NS CHKD _____		

MATCHLINE STA 34+00.00



 HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 888.HMG.ENG IL PROF. DESIGN FIRM NO. 184.000899	USER NAME = bchristmann	DESIGNED -	REVISED -	<div>STATE OF ILLINOIS</div> <div>DEPARTMENT OF TRANSPORTATION</div>	<div>PLAN AND PROFILE</div> <div>EXISTING & PROPOSED ROADWAY</div>					F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1"	DRAWN -	REVISED -							937	12-00071-00-BR	PULASKI	58	11
	PLOT DATE = 10/7/2025	CHECKED -	REVISED -		CONTRACT NO. 99678									
		DATE -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.						



NOTE:
NO PASSING ZONES NOT
EVALUATED OUTSIDE
PROJECT LIMITS.

MODEL: Default
FILE: 10073_PulaskiCo_CH2025-PSE_UpdatesCAD_Sheet10772000_12_PavMarking_7073.dgn

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME	= bchristmann
PLOT SCALE	= 40.0000 ' / in.
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

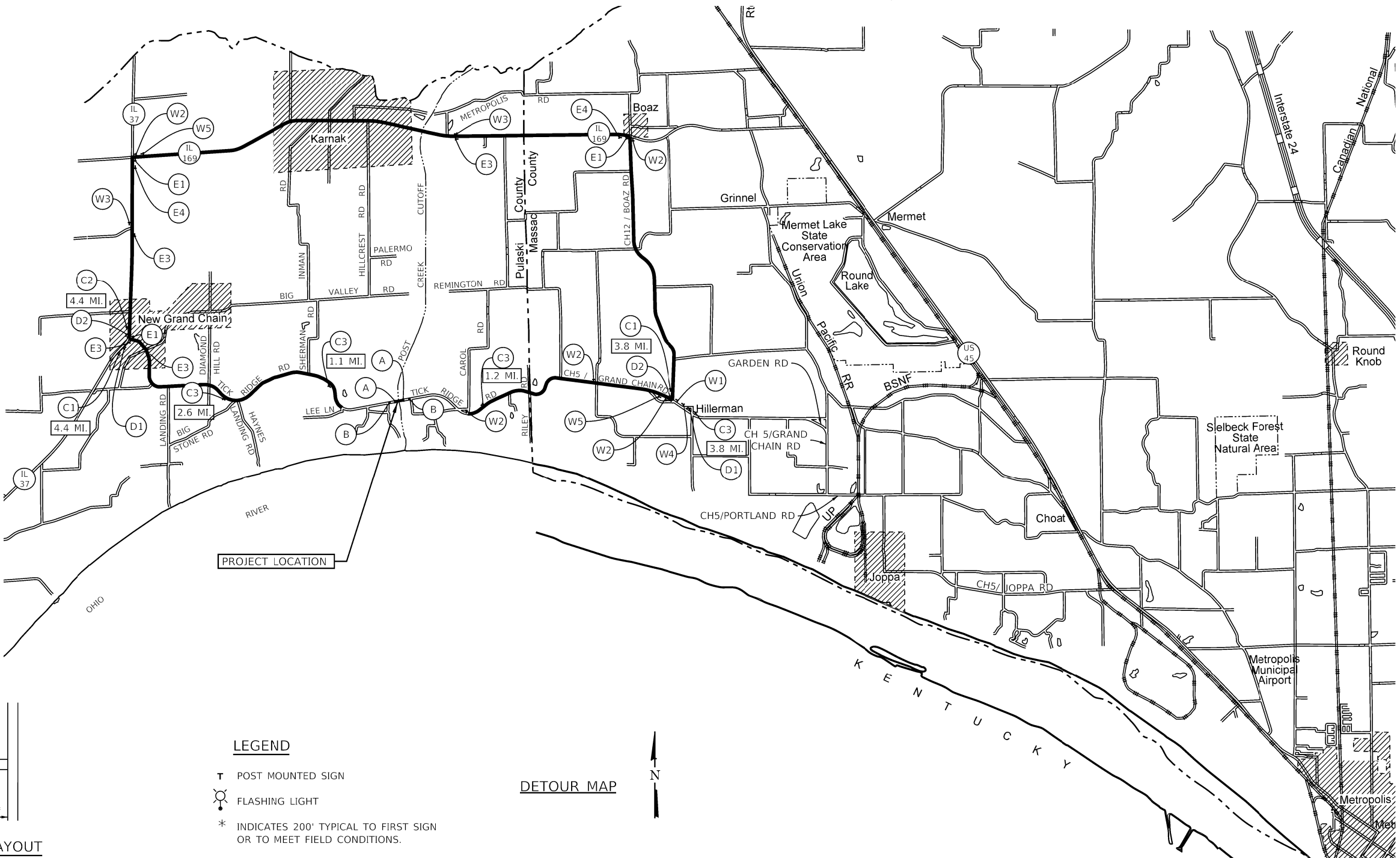
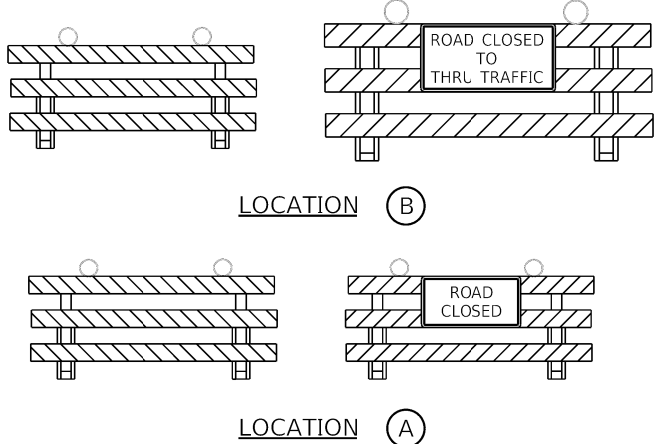
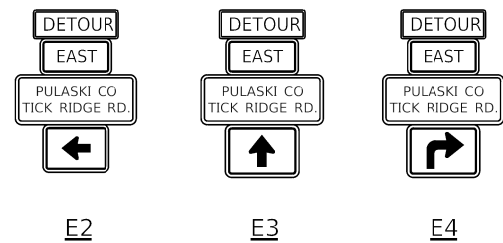
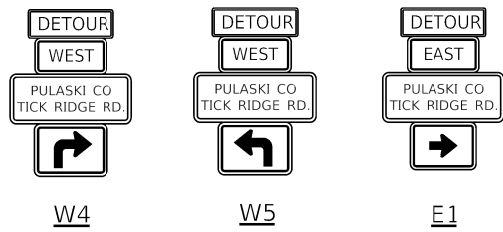
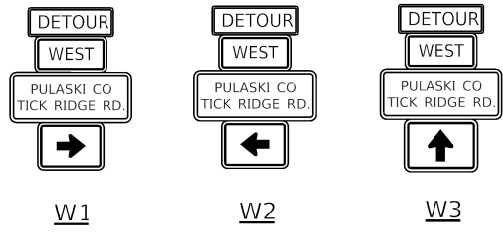
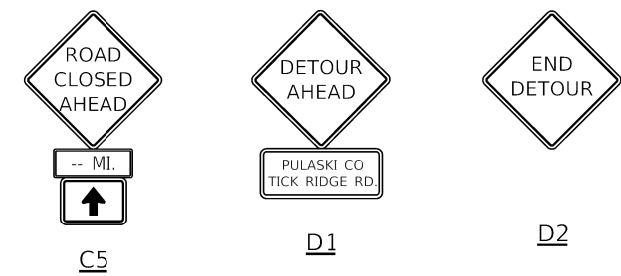
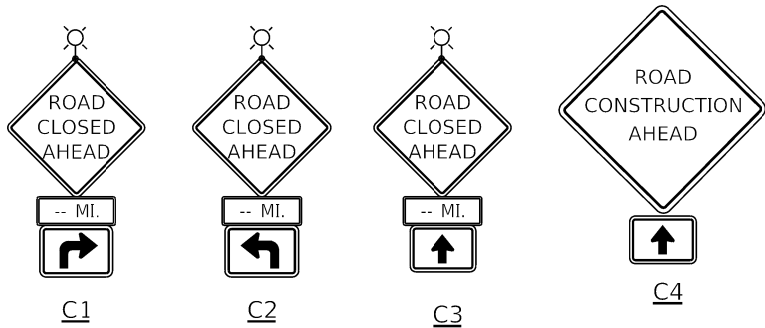
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.
--------	---------------------	------	---------

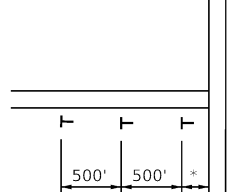
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	12
		CONTRACT NO. 99678		
		ILLINOIS FED. AID PROJECT		



- NOTES:
- ENGINEER MAY MODIFY SIGN PLACEMENT TO MEET FIELD CONDITIONS.
 - ALL ADVANCED WARNING SIGNS SHALL BE 48" x 48" AND HAVE A BLACK LEGEND ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND.
 - ALL ADVANCED WARNING SIGNS SHALL INCLUDE LOW INTENSITY FLASHING LIGHTS.
 - DETOUR SIGNING ASSEMBLY SHALL MAINTAIN THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN NO LESS THAN 5 FEET ABOVE THE EDGE OF PAVEMENT.
 - ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE FOR STABILIZATION.
 - AT LOCATIONS WHERE TYPE III BARRICADES ARE STAGGERED THE "ROAD CLOSED TO THRU TRAFFIC" SIGN SHALL BE PLACED ON THE FRONT BARRICADE.
 - ALL ITEMS OF WORK INVOLVED WITH THE ROAD CLOSURE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
 - THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER 72 HOURS PRIOR TO CLOSURE.

LEGEND

- T POST MOUNTED SIGN
- FLASHING LIGHT
- * INDICATES 200' TYPICAL TO FIRST SIGN OR TO MEET FIELD CONDITIONS.



TYPICAL SIGN LAYOUT

DETOUR MAP

MODEL: Default
FILE: 10/7/2023: PulaskiCo_CH2023-PSE_UpdatesCAD_Sheet10772009_13_Detour_7073.dgn

HMG ENGINEERS
HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME	= bchristmann
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 8000.000' / in.
PLOT DATE	= 10/7/2025

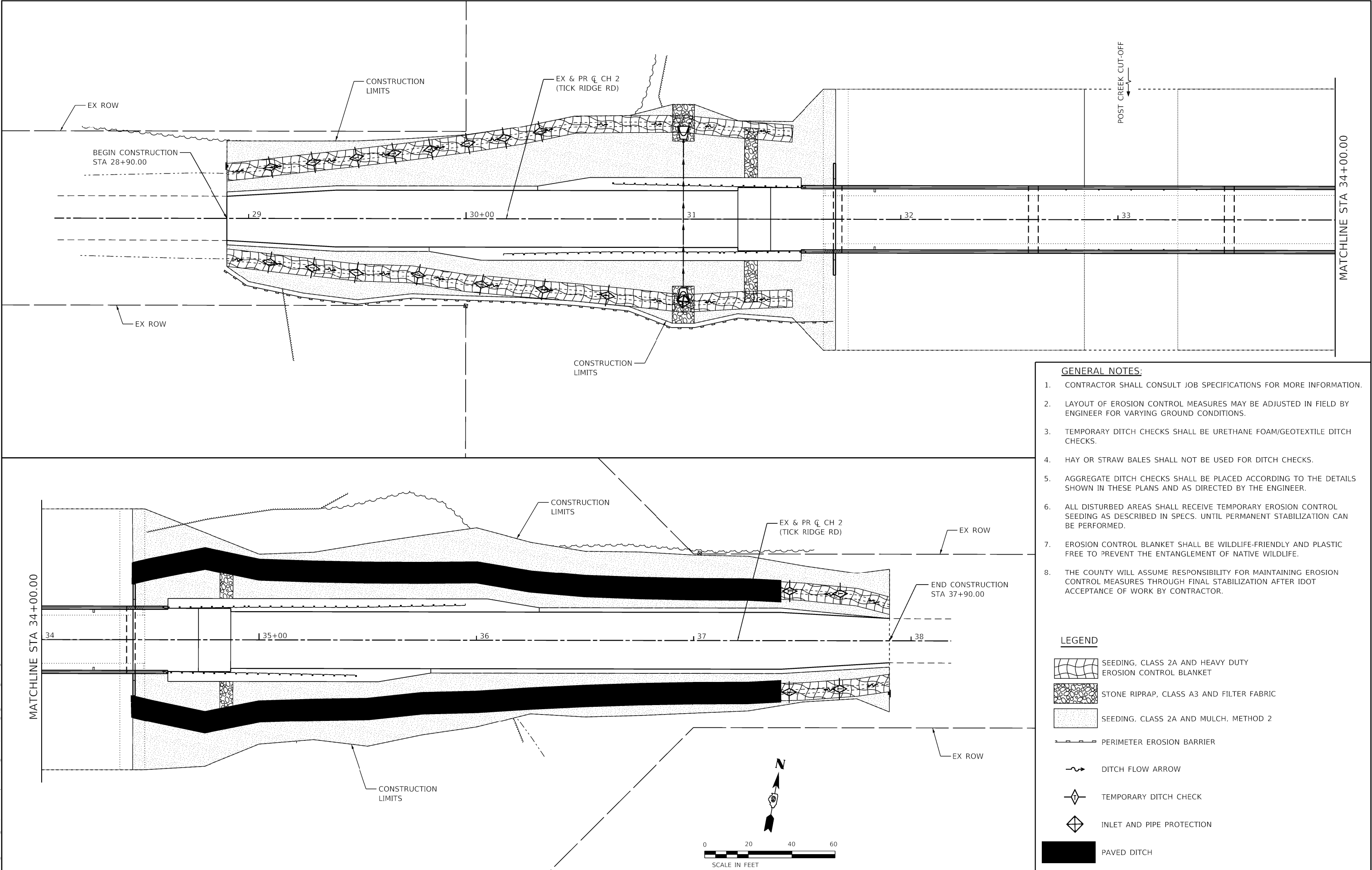
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR MAP

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

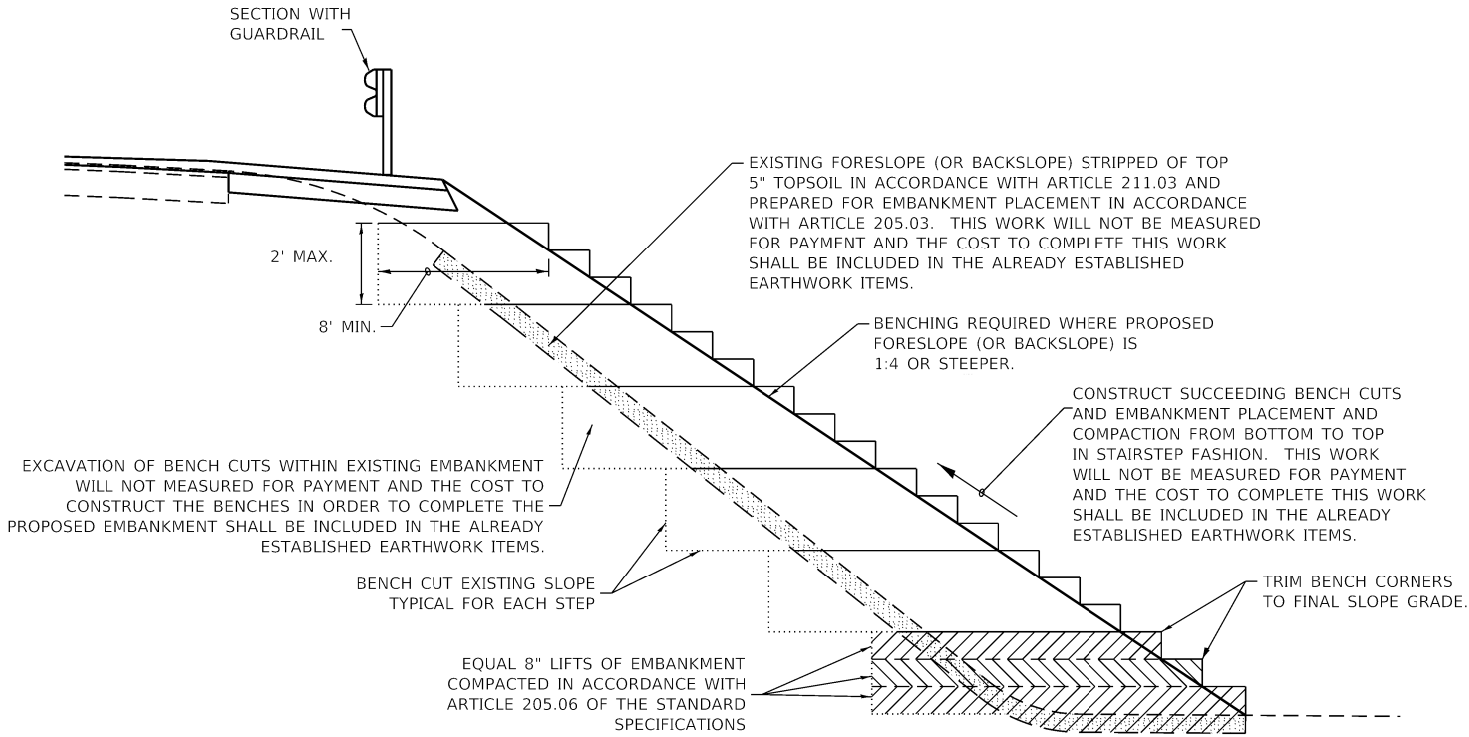
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	13
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



- GENERAL NOTES:**
1. CONTRACTOR SHALL CONSULT JOB SPECIFICATIONS FOR MORE INFORMATION.
 2. LAYOUT OF EROSION CONTROL MEASURES MAY BE ADJUSTED IN FIELD BY ENGINEER FOR VARYING GROUND CONDITIONS.
 3. TEMPORARY DITCH CHECKS SHALL BE URETHANE FOAM/GEOTEXTILE DITCH CHECKS.
 4. HAY OR STRAW BALES SHALL NOT BE USED FOR DITCH CHECKS.
 5. AGGREGATE DITCH CHECKS SHALL BE PLACED ACCORDING TO THE DETAILS SHOWN IN THESE PLANS AND AS DIRECTED BY THE ENGINEER.
 6. ALL DISTURBED AREAS SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AS DESCRIBED IN SPECS. UNTIL PERMANENT STABILIZATION CAN BE PERFORMED.
 7. EROSION CONTROL BLANKET SHALL BE WILDLIFE-FRIENDLY AND PLASTIC FREE TO PREVENT THE ENTANGLEMENT OF NATIVE WILDLIFE.
 8. THE COUNTY WILL ASSUME RESPONSIBILITY FOR MAINTAINING EROSION CONTROL MEASURES THROUGH FINAL STABILIZATION AFTER IDOT ACCEPTANCE OF WORK BY CONTRACTOR.

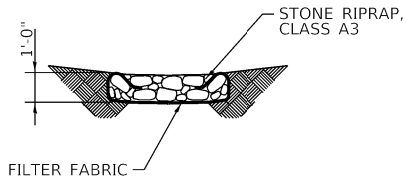
LEGEND

	SEEDING, CLASS 2A AND HEAVY DUTY EROSION CONTROL BLANKET
	STONE RIPRAP, CLASS A3 AND FILTER FABRIC
	SEEDING, CLASS 2A AND MULCH, METHOD 2
	PERIMETER EROSION BARRIER
	DITCH FLOW ARROW
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	PAVED DITCH



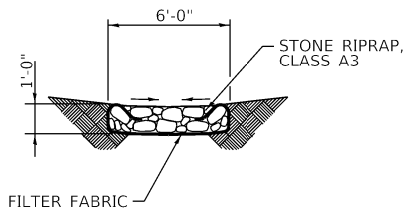
TYPICAL BENCHING FOR EMBANKMENTS DETAIL

(NOT TO SCALE)



STONE RIPRAP DETAIL

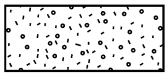
(NOT TO SCALE)



BRIDGE APPROACH PAVEMENT DRAIN DETAIL

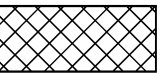
PROVIDES DRAINAGE DOWN EMBANKMENT FROM BRIDGE APPROACH PAVEMENT

(NOT TO SCALE)



FINAL BACKFILL - 1

LOCATION - EDGE OF TRENCH LOCATED WITHIN 2.0 FT OF A PERMANENT SURFACE, INCLUDING ENTRANCES AND SIDEWALK
PIPE MATERIAL - RIGID, FLEXIBLE
BACKFILL MATERIAL - AGGREGATE
PAYMENT - PAID FOR AS TRENCH BACKFILL



FINAL BACKFILL - 2

LOCATION - EDGE OF TRENCH NOT LOCATED WITHIN 2.0 FT OF A PERMANENT SURFACE, INCLUDING ENTRANCES AND SIDEWALK
PIPE MATERIAL - RIGID, FLEXIBLE
BACKFILL MATERIAL - SUITABLE EXCAVATED MATERIAL, EARTH
PAYMENT - INCLUDED IN THE COST OF PIPE

INITIAL BACKFILL - 1

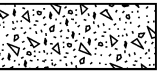
LOCATION - EDGE OF TRENCH LOCATED WITHIN 2.0 FT OF A PERMANENT SURFACE, INCLUDING ENTRANCES AND SIDEWALK
PIPE MATERIAL - RIGID, FLEXIBLE
BACKFILL MATERIAL - AGGREGATE
PAYMENT - PAID FOR AS TRENCH BACKFILL

INITIAL BACKFILL - 2A

LOCATION - EDGE OF TRENCH NOT LOCATED WITHIN 2.0 FT OF A PERMANENT SURFACE, INCLUDING ENTRANCES AND SIDEWALK
PIPE MATERIAL - RIGID
BACKFILL MATERIAL - SUITABLE EXCAVATED MATERIAL, EARTH
PAYMENT - INCLUDED IN THE COST OF PIPE

INITIAL BACKFILL - 2B

LOCATION - EDGE OF TRENCH NOT LOCATED WITHIN 2.0 FT OF A PERMANENT SURFACE, INCLUDING ENTRANCES AND SIDEWALK
PIPE MATERIAL - FLEXIBLE
BACKFILL MATERIAL - AGGREGATE
PAYMENT - INCLUDED IN THE COST OF PIPE



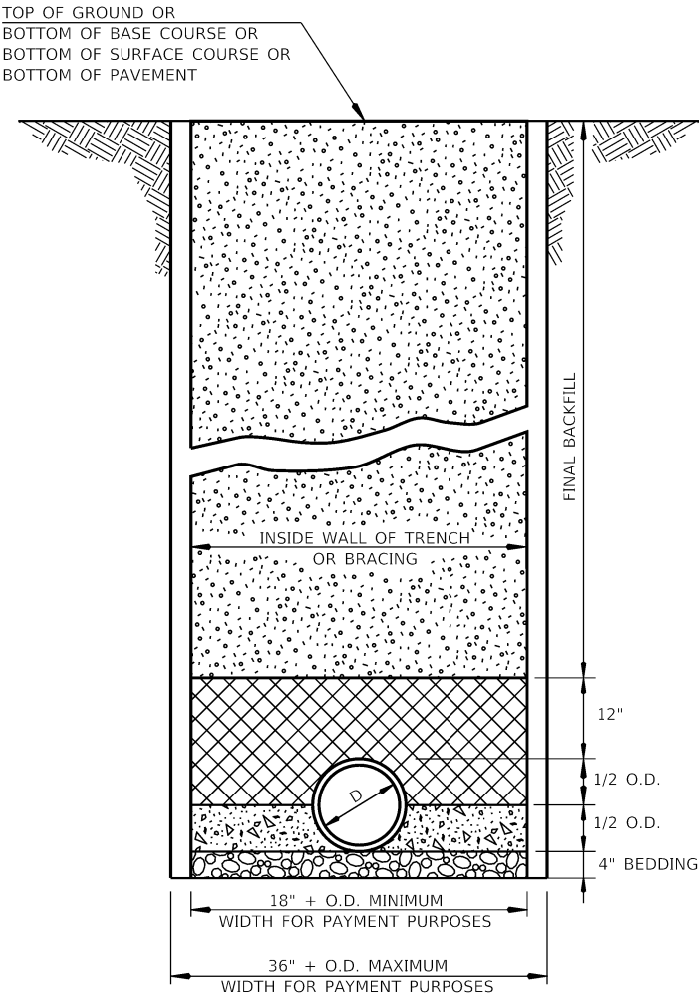
HAUNCHING

LOCATION - ALL
PIPE MATERIAL - RIGID, FLEXIBLE
BACKFILL MATERIAL - AGGREGATE
PAYMENT - INCLUDED IN THE COST OF PIPE

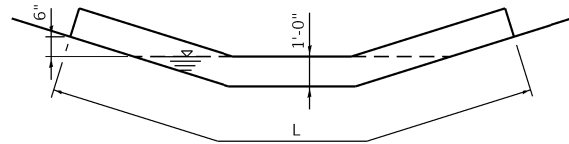


BEDDING

LOCATION - ALL
PIPE MATERIAL - RIGID, FLEXIBLE
BACKFILL MATERIAL - AGGREGATE
PAYMENT - INCLUDED IN THE COST OF PIPE

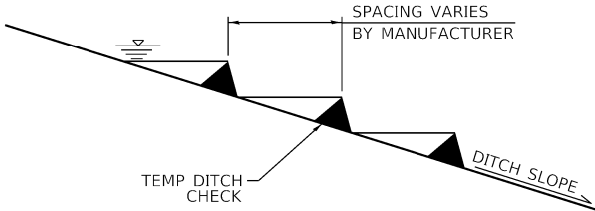


PIPE CULVERT TRENCHING AND BACKFILL DETAIL



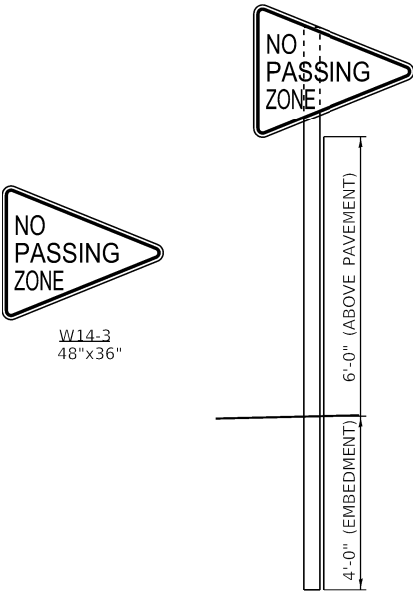
TYPICAL TEMPORARY DITCH CHECK SECTION

(NOT TO SCALE)



TYPICAL DITCH CHECK PROFILE

(NOT TO SCALE)



SIGN DETAILS

(NOT TO SCALE)

MODEL: Default
FILE: M01073_PulaskiCo_CH2025-PSE_UpdatesCAD_Sheet10772009_15_ConstDate_7073.dgn



HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME	= bchristmarn
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 10.0000' / 1 in.
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	15
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

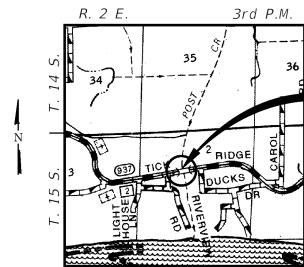
BENCHMARK: **TBM #1:** RR Spike in Power Pole
Sta 31+54.04, 23.14' Rt
El 364.03
TBM #2: RR Spike in Power Pole
Sta 34+78.49, 24.01' Rt
El 365.19

EXISTING STRUCTURE: SN 077-3000
Constructed in 1938, the existing structure consists of three span continuous steel superstructure with concrete deck spanning spill thru concrete abutments on concrete piles and two column concrete piers with tapered legs, one cross beam and spread footings without piles. The existing structure measures 283'-0" back to back of abutments and 25'-4"± out to out of the deck.

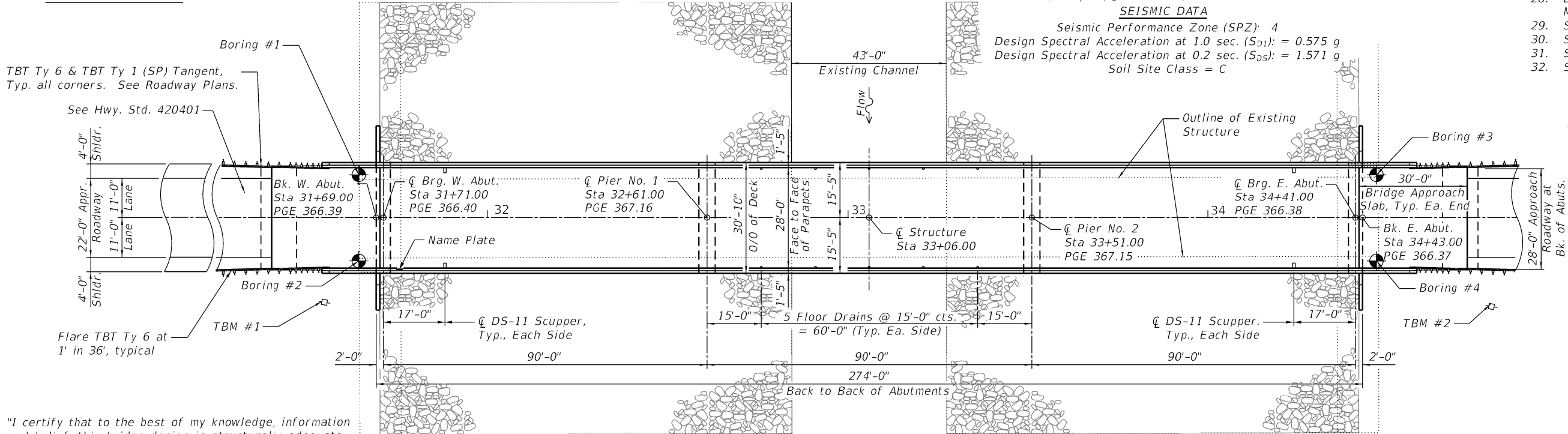
The existing roadway will be closed to traffic during the construction.

SALVAGE:

No salvage.

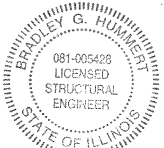


LOCATION SKETCH



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO LRFD Bridge Design Specifications' including Seismic Design."

Bradley G. Hummert Date: 7/7/25
Bradley G. Hummert
Licensed Structural Engineer
in Illinois No. 081-005428



Expires: November 30, 2026

PLAN



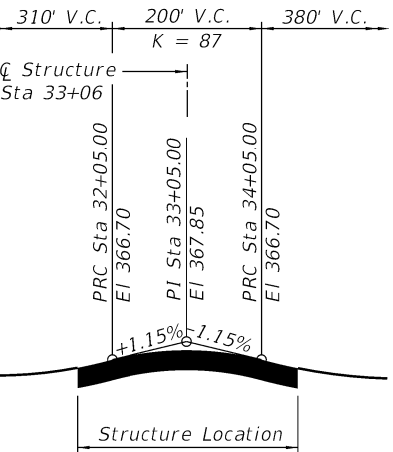
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

SCALE: SHEET 1 OF 32 SHEETS STA. TO STA.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Footing Plan
4. Top of Slab Elevations
5. Top of Slab Elevations
6. Top of Slab Elevations
7. Top of Slab Elevations
8. Top of West Approach Slab Elevations
9. Top of East Approach Slab Elevations
10. Superstructure
11. Superstructure Details
12. Abutment Diaphragm Details
13. Pier Diaphragm Details
14. Precast Bridge Approach Slab
15. Precast Bridge Approach Slab
16. Precast Bridge Approach Slab
17. Preformed Joint Strip Seal
18. Drainage Scupper, DS-11
19. Framing Plan
20. 54" PPC I-Beam - Spans 1 & 3
21. 54" PPC I-Beam - Span 2
22. 54" PPC I-Beam Details
23. West Abutment
24. East Abutment
25. Pier 1
26. Pier 2
27. HP Pile Details
28. Bar Splicer Assembly and Mechanical Splicer Details
29. Soil Boring Logs
30. Soil Boring Logs
31. Soil Boring Logs
32. Soil Boring Logs

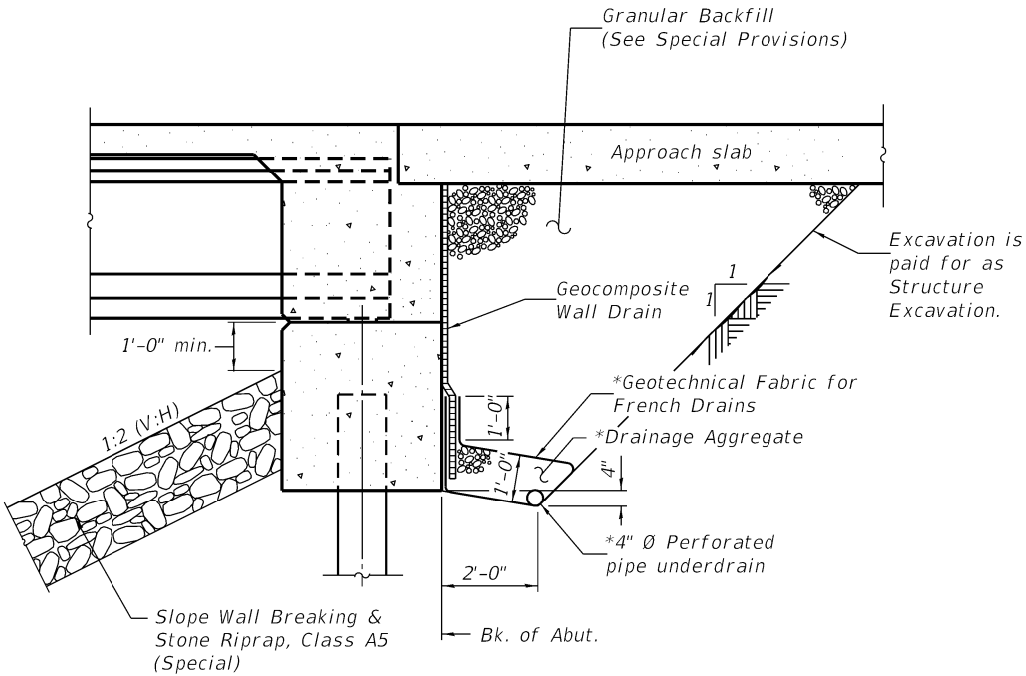


GENERAL PLAN & ELEVATION
FAS 937 (CH 2 / TICK RIDGE RD.)
OVER POST CREEK CUT-OFF
SECTION 12-00071-00-BR
PULASKI COUNTY
STATION 33+06.00
STRUCTURE NO. 077-3145

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	16
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Slipforming of the parapets is not allowed.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. Z's)

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

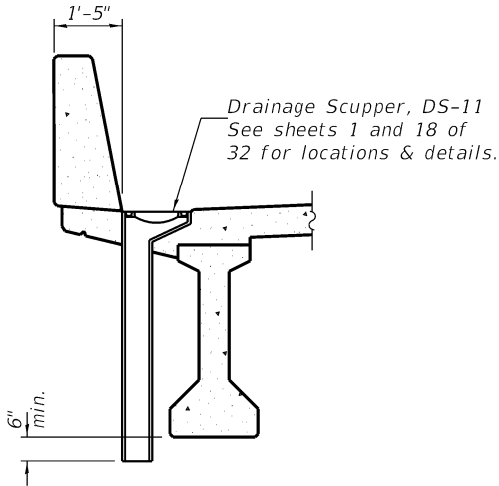
DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	-----	302.61	306.0±	-----	5
Q200	-----	302.42	306.0±	-----	
Design	357.3	302.61	306.0±	357.3	
Check	357.3	302.42	306.0±	357.3	

WATERWAY INFORMATION

Drainage Area = 373 Sq. Mi.									
Existing Overtopping EI = 363.52 at Sta 31+69									
Proposed Overtopping EI = 366.01 at Sta 34+85									
Flood Event	Freq. Yr.	Q C.F.S.	Opening Sq Ft		Nat. H.W.E.	Head - Ft		Headwater EI	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	14,300	1912	1847	325.4	0	0.1	325.4	325.5
Design	20	16,370	2253	2180	328.1	0.1	0.1	328.2	328.2
Base	100	22,000	3070	2980	333.6	0.1	0.1	333.7	333.7
Scour Design Check	200	23,430	3200	3106	334.4	0.1	0.1	334.5	334.5
Overtopping	N/A								
Max. Calc.	500	27,700	3412	3312	335.5	0.1	0.1	335.6	335.6

Note:
Elevations include an assumed backwater from the Ohio River.



DRAINAGE SCUPPER SECTION

POST CREEK CUT-OFF
BUILT 202 BY
PULASKI COUNTY
SEC. 12-00071-00-BR
PROJ. NO. 1 FDA (058)
FAS RTE 937 STA 33+06
S.N. 077-3145 LOADING HL93

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	---	---	1
Structure Excavation	Cu Yd	---	162	162
Floor Drains	Each	10	---	10
Concrete Structures	Cu Yd	---	349.9	349.9
Concrete Superstructure	Cu Yd	302.8	---	302.8
Bridge Deck Grooving	Sq Yd	960	---	960
** Protective Coat	Sq Yd	1,314	---	1,314
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54 In.	Foot	1,077.0	---	1,077.0
Reinforcement Bars	Pound	---	50,530	50,530
Reinforcement Bars, Epoxy Coated	Pound	105,720	81,360	187,080
Mechanical Splicers	Each	---	348	348
Furnishing Steel Piles HP14x89	Foot	---	564	564
Driving Piles	Foot	---	564	564
Test Pile Steel HP14x89	Each	---	2	2
Pile Shoes	Each	---	14	14
Name Plates	Each	---	---	1
Permanent Casing	Foot	---	167	167
Drilled Shaft in Soil	Cu Yd	---	122.0	122.0
Drilled Shaft in Rock	Cu Yd	---	49.4	49.4
Preformed Joint Strip Seal	Foot	58.0	---	58.0
Granular Backfill for Structures	Cu Yd	---	110	110
Geocomposite Wall Drain	Sq Yd	---	79	79
Pipe Underdrains for Structures 4"	Foot	---	135	135
Crosshole Sonic Logging Access Ducts	Foot	---	1,008	1,008
Crosshole Sonic Logging Testing	Each	---	6	6
Stone Riprap, Class A5 (Special)	Sq Yd	---	3,393	3,393
Concrete Wearing Surface, 5"	Sq Yd	200	---	200
Precast Bridge Approach Slab	Sq Ft	1,690	---	1,690
Slope Wall Breaking	Sq Yd	---	3,393	3,393
Drainage Scuppers, DS-11	Each	4	---	4

** Quantity includes top of concrete surface of bridge deck and approach slabs end to end and the top and inside vertical faces of the parapets and curbs.

MODEL Default
FILE NAME: ILL073_PulaskiCo_CH20205-PSE_UpdatesCAD_Sheets(0772000_17_data 02_7073.dgn

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
PLOT SCALE = 2.0000 ' / in.
CHECKED -
PLOT DATE = 10/7/2025
DATE -

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

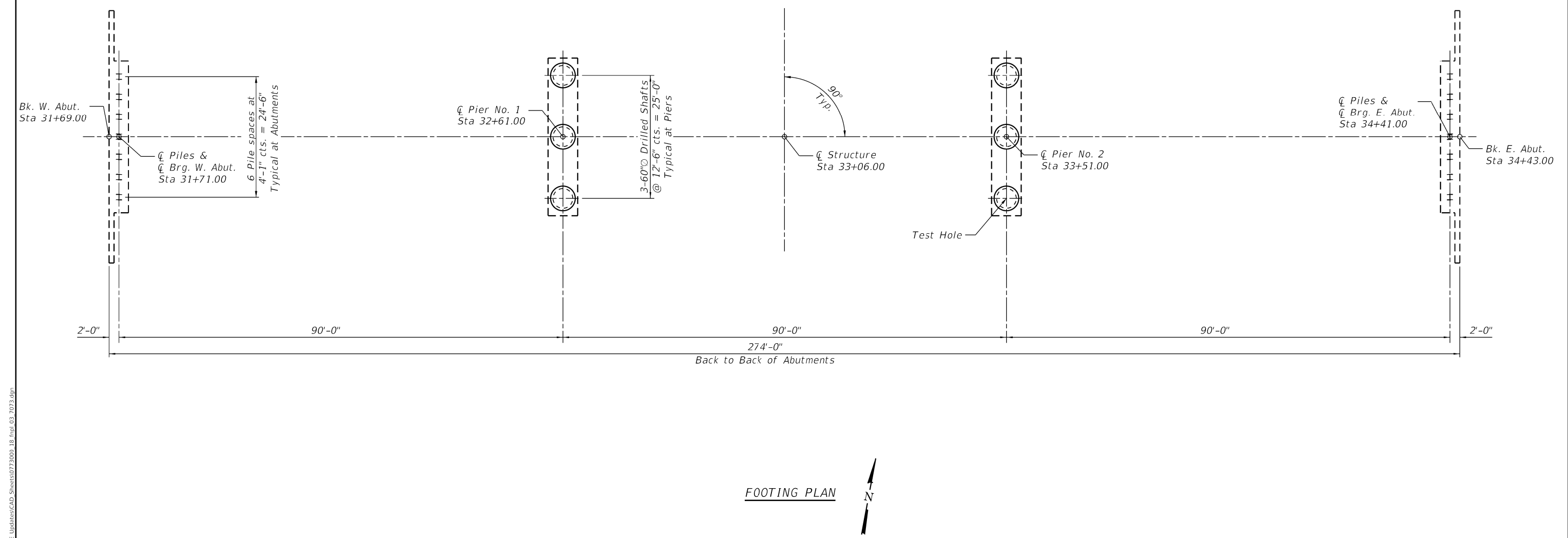
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 077-3145

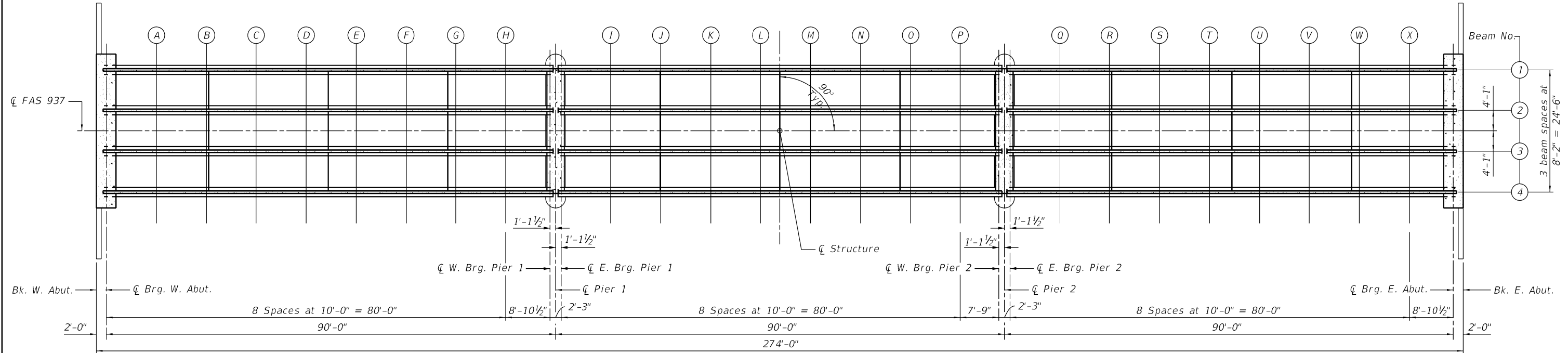
SCALE: SHEET 2 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	17
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

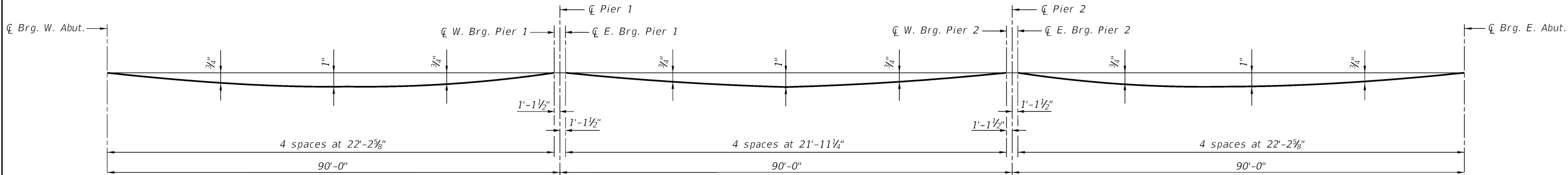
MODEL Default
FILE Name: I:\1073 PulaskiCo_CH3\2025-PSE Updates\CAD Sheets\0772000_18.rvt 03/2025.dgn



<div><div>HMG</div><div>ENGINEERS</div><div>IL PROF. DESIGN FIRM NO. 184.000899</div></div>	<div><div>HMG ENGINEERS, INC.</div><div>9360 HOLY CROSS LANE</div><div>BREESE, ILLINOIS 62230</div><div>888.HMG.ENGR</div></div>	USER NAME = bchristmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOOTING PLAN STRUCTURE NO. 077-3145					F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN -	REVISED -							937	12-00071-00-BR	PULASKI	58	18
		PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -							CONTRACT NO. 99678				
		PLOT DATE = 10/7/2025	DATE -	REVISED -							ILLINOIS FED. AID PROJECT				
		SCALE:		SHEET 3 OF 32 SHEETS		STA.		TO STA.							



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only, exclusive of beam weight.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections shown on sheets 5 thru 7.

MODEL Default
FILE Name: IL073_PulaskiCo_CH2025-PSE_UpdatesCAD_Sheet(0772000_19_top_04_7072.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = lbchristmarn
PLOT SCALE = 20.0000' = 1 in.
PLOT DATE = 10/7/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

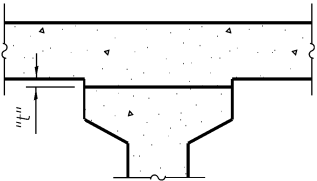
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 077-3145

SCALE: SHEET 4 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	19
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	-14.00	366.15	366.15
CL Brg West Abut	31+71.00	-14.00	366.17	366.17
A	31+81.00	-14.00	366.24	366.26
B	31+91.00	-14.00	366.32	366.37
C	32+01.00	-14.00	366.42	366.49
D	32+11.00	-14.00	366.53	366.62
E	32+21.00	-14.00	366.64	366.72
F	32+31.00	-14.00	366.73	366.80
G	32+41.00	-14.00	366.81	366.86
H	32+51.00	-14.00	366.87	366.90
CL W. Brg Pier 1	32+59.88	-14.00	366.92	366.92
CL Pier 1	32+61.00	-14.00	366.93	366.93
CL E. Brg Pier 1	32+62.13	-14.00	366.94	366.94
I	32+72.13	-14.00	366.98	367.01
J	32+82.13	-14.00	367.01	367.07
K	32+92.13	-14.00	367.03	367.10
L	33+02.13	-14.00	367.04	367.12
M	33+12.13	-14.00	367.04	367.12
N	33+22.13	-14.00	367.02	367.10
O	33+32.13	-14.00	367.00	367.05
P	33+42.13	-14.00	366.96	366.99
CL W. Brg Pier 2	33+49.88	-14.00	366.93	366.93
CL Pier 2	33+51.00	-14.00	366.92	366.92
CL E. Brg Pier 2	33+52.13	-14.00	366.91	366.91
Q	33+62.13	-14.00	366.85	366.88
R	33+72.13	-14.00	366.78	366.84
S	33+82.13	-14.00	366.70	366.77
T	33+92.13	-14.00	366.61	366.69
U	34+02.13	-14.00	366.50	366.58
V	34+12.13	-14.00	366.39	366.46
W	34+22.13	-14.00	366.29	366.35
X	34+32.13	-14.00	366.21	366.24
CL Brg East Abut	34+41.00	-14.00	366.15	366.15
Bk East Abut	34+43.00	-14.00	366.13	366.13

BEAM NO. 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	-12.25	366.19	366.19
CL Brg West Abut	31+71.00	-12.25	366.20	366.20
A	31+81.00	-12.25	366.27	366.30
B	31+91.00	-12.25	366.36	366.41
C	32+01.00	-12.25	366.46	366.53
D	32+11.00	-12.25	366.57	366.65
E	32+21.00	-12.25	366.67	366.75
F	32+31.00	-12.25	366.76	366.84
G	32+41.00	-12.25	366.84	366.90
H	32+51.00	-12.25	366.91	366.94
CL W. Brg Pier 1	32+59.88	-12.25	366.96	366.96
CL Pier 1	32+61.00	-12.25	366.97	366.97
CL E. Brg Pier 1	32+62.13	-12.25	366.97	366.97
I	32+72.13	-12.25	367.02	367.04
J	32+82.13	-12.25	367.05	367.10
K	32+92.13	-12.25	367.07	367.14
L	33+02.13	-12.25	367.08	367.16
M	33+12.13	-12.25	367.07	367.16
N	33+22.13	-12.25	367.06	367.13
O	33+32.13	-12.25	367.04	367.09
P	33+42.13	-12.25	367.00	367.03
CL W. Brg Pier 2	33+49.88	-12.25	366.96	366.96
CL Pier 2	33+51.00	-12.25	366.96	366.96
CL E. Brg Pier 2	33+52.13	-12.25	366.95	366.95
Q	33+62.13	-12.25	366.89	366.92
R	33+72.13	-12.25	366.82	366.87
S	33+82.13	-12.25	366.74	366.81
T	33+92.13	-12.25	366.64	366.72
U	34+02.13	-12.25	366.54	366.62
V	34+12.13	-12.25	366.43	366.50
W	34+22.13	-12.25	366.33	366.38
X	34+32.13	-12.25	366.25	366.27
CL Brg East Abut	34+41.00	-12.25	366.18	366.18
Bk East Abut	34+43.00	-12.25	366.17	366.17

BEAM NO. 2

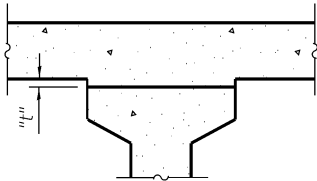
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	-4.08	366.32	366.32
CL Brg West Abut	31+71.00	-4.08	366.34	366.34
A	31+81.00	-4.08	366.41	366.43
B	31+91.00	-4.08	366.49	366.55
C	32+01.00	-4.08	366.59	366.66
D	32+11.00	-4.08	366.70	366.79
E	32+21.00	-4.08	366.81	366.89
F	32+31.00	-4.08	366.90	366.97
G	32+41.00	-4.08	366.98	367.03
H	32+51.00	-4.08	367.04	367.07
CL W. Brg Pier 1	32+59.88	-4.08	367.09	367.09
CL Pier 1	32+61.00	-4.08	367.10	367.10
CL E. Brg Pier 1	32+62.13	-4.08	367.11	367.11
I	32+72.13	-4.08	367.15	367.18
J	32+82.13	-4.08	367.18	367.24
K	32+92.13	-4.08	367.20	367.27
L	33+02.13	-4.08	367.21	367.29
M	33+12.13	-4.08	367.21	367.29
N	33+22.13	-4.08	367.20	367.27
O	33+32.13	-4.08	367.17	367.22
P	33+42.13	-4.08	367.13	367.16
CL W. Brg Pier 2	33+49.88	-4.08	367.10	367.10
CL Pier 2	33+51.00	-4.08	367.09	367.09
CL E. Brg Pier 2	33+52.13	-4.08	367.08	367.08
Q	33+62.13	-4.08	367.02	367.05
R	33+72.13	-4.08	366.95	367.01
S	33+82.13	-4.08	366.87	366.94
T	33+92.13	-4.08	366.78	366.86
U	34+02.13	-4.08	366.67	366.75
V	34+12.13	-4.08	366.56	366.63
W	34+22.13	-4.08	366.46	366.52
X	34+32.13	-4.08	366.38	366.41
CL Brg East Abut	34+41.00	-4.08	366.32	366.32
Bk East Abut	34+43.00	-4.08	366.31	366.31

- Notes:
- Elevations are at Top of Concrete.
 - See Sheet 4 for elevation locations.

E-S 2-17-2017

MODEL: Default
FILE NAME: ILL073_PulaskiCo_CH202025-PSE_UpdatesCAD_Sheet(0772000_20.tbl_05_7073.dgn

<div><div>HMGENGINEERS</div><div>9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 888.HMG.ENGR</div><div>IL PROF. DESIGN FIRM NO. 184.000899</div></div>	USER NAME = bchristmann	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 077-3145	SCALE:	SHEET 5 OF 32 SHEETS	STA.	TO STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							937	12-00071-00-BR	PULASKI	58	20
		PLOT SCALE = 2.0000 ' / in.	CHECKED -							CONTRACT NO. 99678				
		PLOT DATE = 10/7/2025	DATE -							ILLINOIS FED. AID PROJECT				



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

⌀ ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	0.00	366.39	366.39
CL Brg West Abut	31+71.00	0.00	366.40	366.40
A	31+81.00	0.00	366.47	366.50
B	31+91.00	0.00	366.56	366.61
C	32+01.00	0.00	366.66	366.73
D	32+11.00	0.00	366.77	366.85
E	32+21.00	0.00	366.87	366.95
F	32+31.00	0.00	366.96	367.03
G	32+41.00	0.00	367.04	367.09
H	32+51.00	0.00	367.11	367.14
CL W. Brg Pier 1	32+59.88	0.00	367.16	367.16
CL Pier 1	32+61.00	0.00	367.16	367.16
CL E. Brg Pier 1	32+62.13	0.00	367.17	367.17
I	32+72.13	0.00	367.21	367.24
J	32+82.13	0.00	367.25	367.30
K	32+92.13	0.00	367.27	367.34
L	33+02.13	0.00	367.28	367.36
M	33+12.13	0.00	367.27	367.35
N	33+22.13	0.00	367.26	367.33
O	33+32.13	0.00	367.23	367.29
P	33+42.13	0.00	367.20	367.23
CL W. Brg Pier 2	33+49.88	0.00	367.16	367.16
CL Pier 2	33+51.00	0.00	367.15	367.15
CL E. Brg Pier 2	33+52.13	0.00	367.15	367.15
Q	33+62.13	0.00	367.09	367.12
R	33+72.13	0.00	367.02	367.07
S	33+82.13	0.00	366.93	367.01
T	33+92.13	0.00	366.84	366.92
U	34+02.13	0.00	366.73	366.82
V	34+12.13	0.00	366.62	366.70
W	34+22.13	0.00	366.53	366.58
X	34+32.13	0.00	366.44	366.47
CL Brg East Abut	34+41.00	0.00	366.38	366.38
Bk East Abut	34+43.00	0.00	366.37	366.37

BEAM NO. 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	4.08	366.32	366.32
CL Brg West Abut	31+71.00	4.08	366.34	366.34
A	31+81.00	4.08	366.41	366.43
B	31+91.00	4.08	366.49	366.55
C	32+01.00	4.08	366.59	366.66
D	32+11.00	4.08	366.70	366.79
E	32+21.00	4.08	366.81	366.89
F	32+31.00	4.08	366.90	366.97
G	32+41.00	4.08	366.98	367.03
H	32+51.00	4.08	367.04	367.07
CL W. Brg Pier 1	32+59.88	4.08	367.09	367.09
CL Pier 1	32+61.00	4.08	367.10	367.10
CL E. Brg Pier 1	32+62.13	4.08	367.11	367.11
I	32+72.13	4.08	367.15	367.18
J	32+82.13	4.08	367.18	367.24
K	32+92.13	4.08	367.20	367.27
L	33+02.13	4.08	367.21	367.29
M	33+12.13	4.08	367.21	367.29
N	33+22.13	4.08	367.20	367.27
O	33+32.13	4.08	367.17	367.22
P	33+42.13	4.08	367.13	367.16
CL W. Brg Pier 2	33+49.88	4.08	367.10	367.10
CL Pier 2	33+51.00	4.08	367.09	367.09
CL E. Brg Pier 2	33+52.13	4.08	367.08	367.08
Q	33+62.13	4.08	367.02	367.05
R	33+72.13	4.08	366.95	367.01
S	33+82.13	4.08	366.87	366.94
T	33+92.13	4.08	366.78	366.86
U	34+02.13	4.08	366.67	366.75
V	34+12.13	4.08	366.56	366.63
W	34+22.13	4.08	366.46	366.52
X	34+32.13	4.08	366.38	366.41
CL Brg East Abut	34+41.00	4.08	366.32	366.32
Bk East Abut	34+43.00	4.08	366.31	366.31

- Notes:
- Elevations are at Top of Concrete.
 - See Sheet 4 for elevation locations.

E-S2-17-2017

MODEL Default
FILE Name: ILL073_PulaskiCo_CH32025-PSE_UpdatesCAD_Sheet10772000_21.tbl_06_7073.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

IL PROF. DESIGN FIRM NO. 184.000899

USER NAME = bchristmarn

PLOT SCALE = 2.0000 " / in.

PLOT DATE = 10/7/2025

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 077-3145

SCALE: SHEET 6 OF 32 SHEETS STA. TO STA.

F.A.S. RTE. 937

SECTION 12-00071-00-BR

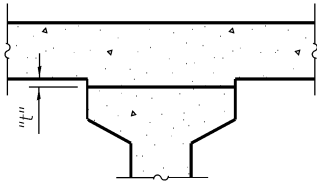
COUNTY PULASKI

TOTAL SHEETS 58

SHEET NO. 21

CONTRACT NO. 99678

ILLINOIS FED. AID PROJECT



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

BEAM NO. 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	12.25	366.19	366.19
CL Brg West Abut	31+71.00	12.25	366.20	366.20
A	31+81.00	12.25	366.27	366.30
B	31+91.00	12.25	366.36	366.41
C	32+01.00	12.25	366.46	366.53
D	32+11.00	12.25	366.57	366.65
E	32+21.00	12.25	366.67	366.75
F	32+31.00	12.25	366.76	366.84
G	32+41.00	12.25	366.84	366.90
H	32+51.00	12.25	366.91	366.94
CL W. Brg Pier 1	32+59.88	12.25	366.96	366.96
CL Pier 1	32+61.00	12.25	366.97	366.97
CL E. Brg Pier 1	32+62.13	12.25	366.97	366.97
I	32+72.13	12.25	367.02	367.04
J	32+82.13	12.25	367.05	367.10
K	32+92.13	12.25	367.07	367.14
L	33+02.13	12.25	367.08	367.16
M	33+12.13	12.25	367.07	367.16
N	33+22.13	12.25	367.06	367.13
O	33+32.13	12.25	367.04	367.09
P	33+42.13	12.25	367.00	367.03
CL W. Brg Pier 2	33+49.88	12.25	366.96	366.96
CL Pier 2	33+51.00	12.25	366.96	366.96
CL E. Brg Pier 2	33+52.13	12.25	366.95	366.95
Q	33+62.13	12.25	366.89	366.92
R	33+72.13	12.25	366.82	366.87
S	33+82.13	12.25	366.74	366.81
T	33+92.13	12.25	366.64	366.72
U	34+02.13	12.25	366.54	366.62
V	34+12.13	12.25	366.43	366.50
W	34+22.13	12.25	366.33	366.38
X	34+32.13	12.25	366.25	366.27
CL Brg East Abut	34+41.00	12.25	366.18	366.18
Bk East Abut	34+43.00	12.25	366.17	366.17

SOUTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk West Abut	31+69.00	14.00	366.15	366.15
CL Brg West Abut	31+71.00	14.00	366.17	366.17
A	31+81.00	14.00	366.24	366.26
B	31+91.00	14.00	366.32	366.37
C	32+01.00	14.00	366.42	366.49
D	32+11.00	14.00	366.53	366.62
E	32+21.00	14.00	366.64	366.72
F	32+31.00	14.00	366.73	366.80
G	32+41.00	14.00	366.81	366.86
H	32+51.00	14.00	366.87	366.90
CL W. Brg Pier 1	32+59.88	14.00	366.92	366.92
CL Pier 1	32+61.00	14.00	366.93	366.93
CL E. Brg Pier 1	32+62.13	14.00	366.94	366.94
I	32+72.13	14.00	366.98	367.01
J	32+82.13	14.00	367.01	367.07
K	32+92.13	14.00	367.03	367.10
L	33+02.13	14.00	367.04	367.12
M	33+12.13	14.00	367.04	367.12
N	33+22.13	14.00	367.02	367.10
O	33+32.13	14.00	367.00	367.05
P	33+42.13	14.00	366.96	366.99
CL W. Brg Pier 2	33+49.88	14.00	366.93	366.93
CL Pier 2	33+51.00	14.00	366.92	366.92
CL E. Brg Pier 2	33+52.13	14.00	366.91	366.91
Q	33+62.13	14.00	366.85	366.88
R	33+72.13	14.00	366.78	366.84
S	33+82.13	14.00	366.70	366.77
T	33+92.13	14.00	366.61	366.69
U	34+02.13	14.00	366.50	366.58
V	34+12.13	14.00	366.39	366.46
W	34+22.13	14.00	366.29	366.35
X	34+32.13	14.00	366.21	366.24
CL Brg East Abut	34+41.00	14.00	366.15	366.15
Bk East Abut	34+43.00	14.00	366.13	366.13

- Notes:
- 1. Elevations are at Top of Concrete.
 - 2. See Sheet 4 for elevation locations.

E-S2-17-2017

MODEL Default
FILE Name: IL1073_PulaskiCo_CH2025-PSE_UpdatesCAD_Sheet(0772000_22_tel_07_7073.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

IL PROF. DESIGN FIRM NO. 184.000899

USER NAME	= bchristmann
PLOT SCALE	= 2.0000 " / in.
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 077-3145**

SCALE:

SHEET 7 OF 32 SHEETS

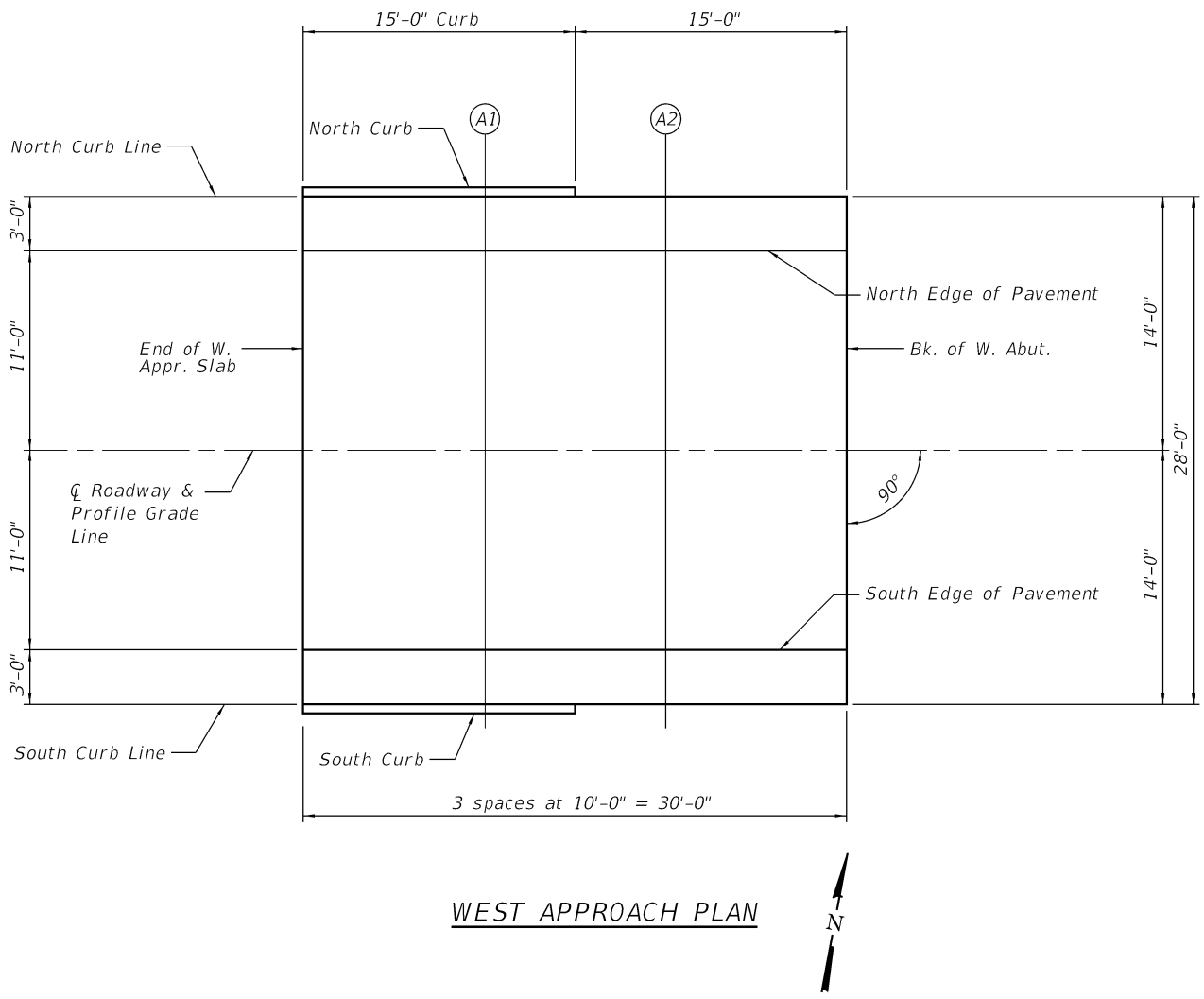
STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	22
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

NORTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	31+40.00	-14.00	366.05
A1	31+50.00	-14.00	366.07
A2	31+60.00	-14.00	366.11
E. End of West Appr. Pav't.	31+70.00	-14.00	366.16

NORTH EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	31+40.00	-11.00	366.11
A1	31+50.00	-11.00	366.13
A2	31+60.00	-11.00	366.17
E. End of West Appr. Pav't.	31+70.00	-11.00	366.22

CL ROADWAY & PROFILE GRADE LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	31+40.00	0.00	366.28
A1	31+50.00	0.00	366.30
A2	31+60.00	0.00	366.34
E. End of West Appr. Pav't.	31+70.00	0.00	366.39



WEST APPROACH PLAN

SOUTH EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	31+40.00	-11.00	366.11
A1	31+50.00	-11.00	366.13
A2	31+60.00	-11.00	366.17
E. End of West Appr. Pav't.	31+70.00	-11.00	366.22

SOUTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. Pav't.	31+40.00	-14.00	366.05
A1	31+50.00	-14.00	366.07
A2	31+60.00	-14.00	366.11
E. End of West Appr. Pav't.	31+70.00	-14.00	366.16

MODEL: Default
FILE NAME: I:\1073_PulaskiCo_CH2025-PSE_Updates\CAD_Sheets\0772000_23_tosa_08_7073.dgn

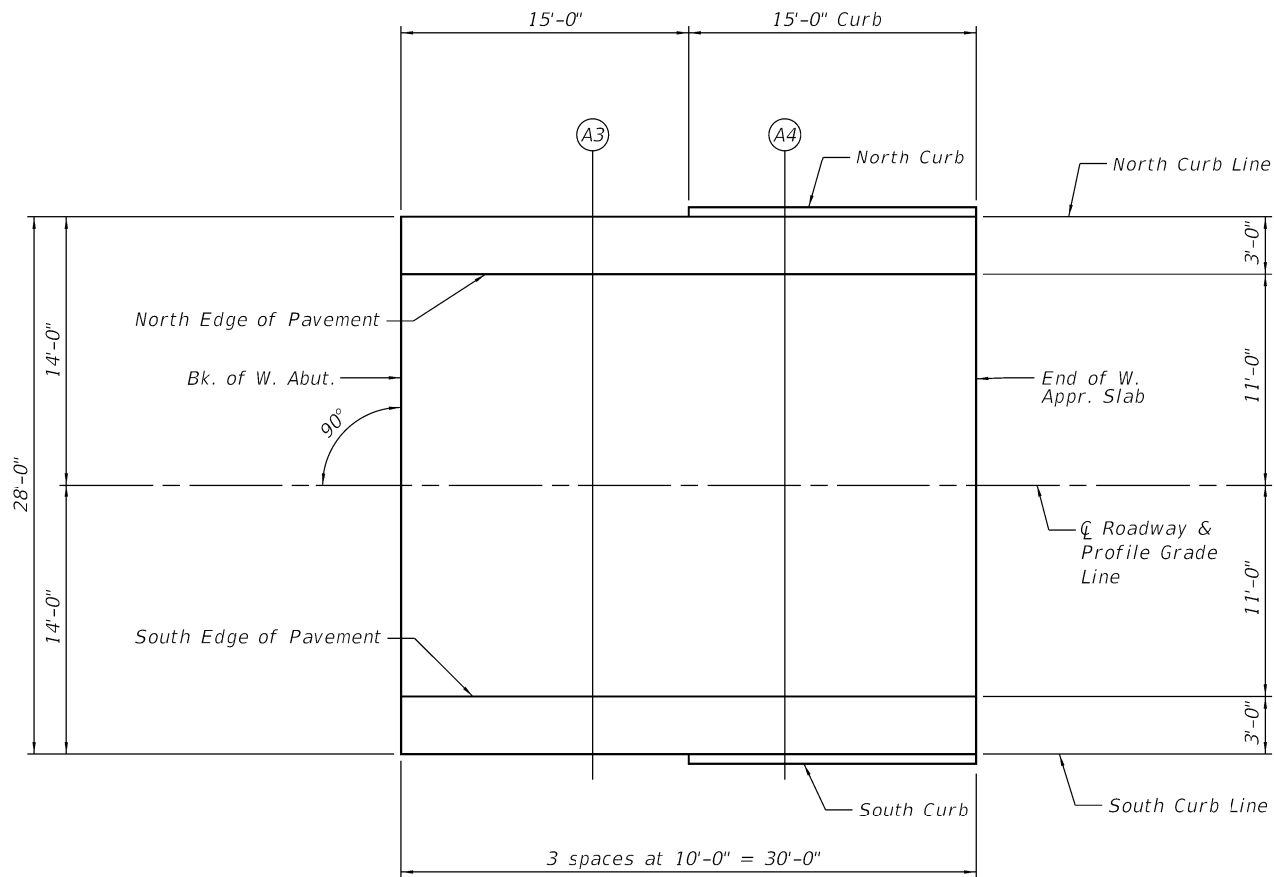
E-AS

2-17-2017

NORTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	34+42.00	-14.00	366.14
A3	34+52.00	-14.00	366.09
A4	34+62.00	-14.00	366.05
E. End of East Appr. Pav't.	34+72.00	-14.00	366.02

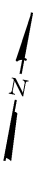
NORTH EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	34+42.00	-11.00	366.20
A3	34+52.00	-11.00	366.15
A4	34+62.00	-11.00	366.11
E. End of East Appr. Pav't.	34+72.00	-11.00	366.08

CL ROADWAY & PROFILE GRADE LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	34+42.00	0.00	366.37
A3	34+52.00	0.00	366.32
A4	34+62.00	0.00	366.28
E. End of East Appr. Pav't.	34+72.00	0.00	366.25



SOUTH EDGE OF PAVEMENT			
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	34+42.00	-11.00	366.20
A3	34+52.00	-11.00	366.15
A4	34+62.00	-11.00	366.11
E. End of East Appr. Pav't.	34+72.00	-11.00	366.08

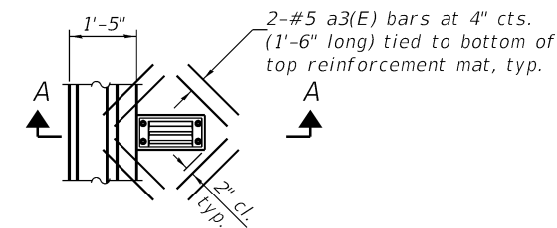
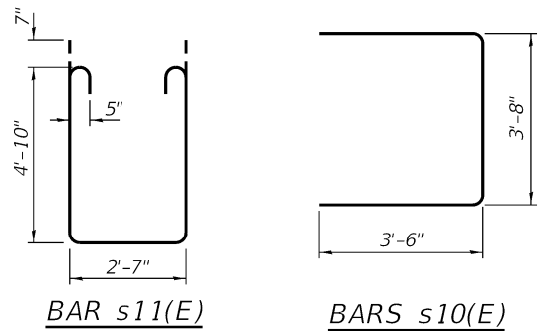
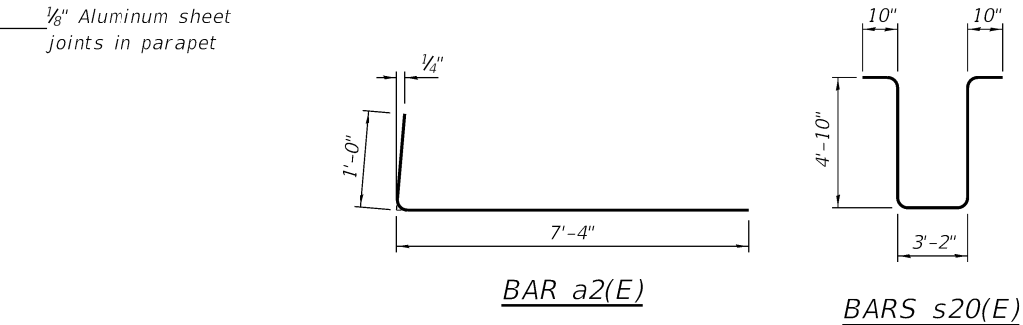
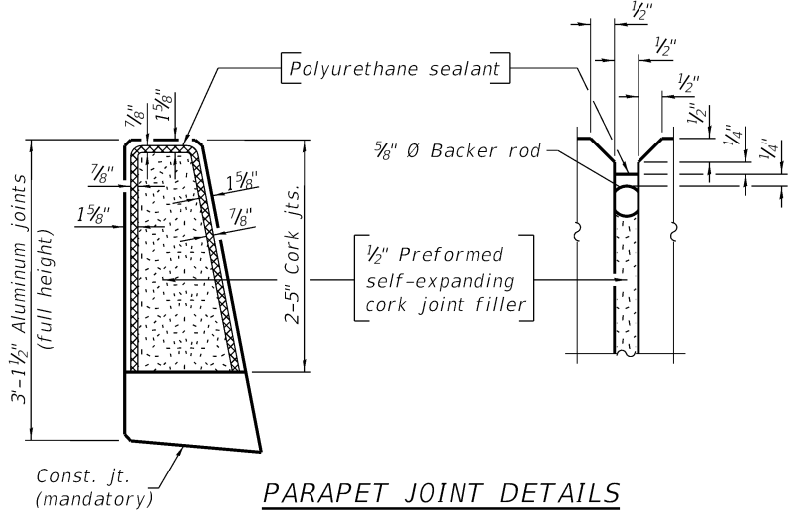
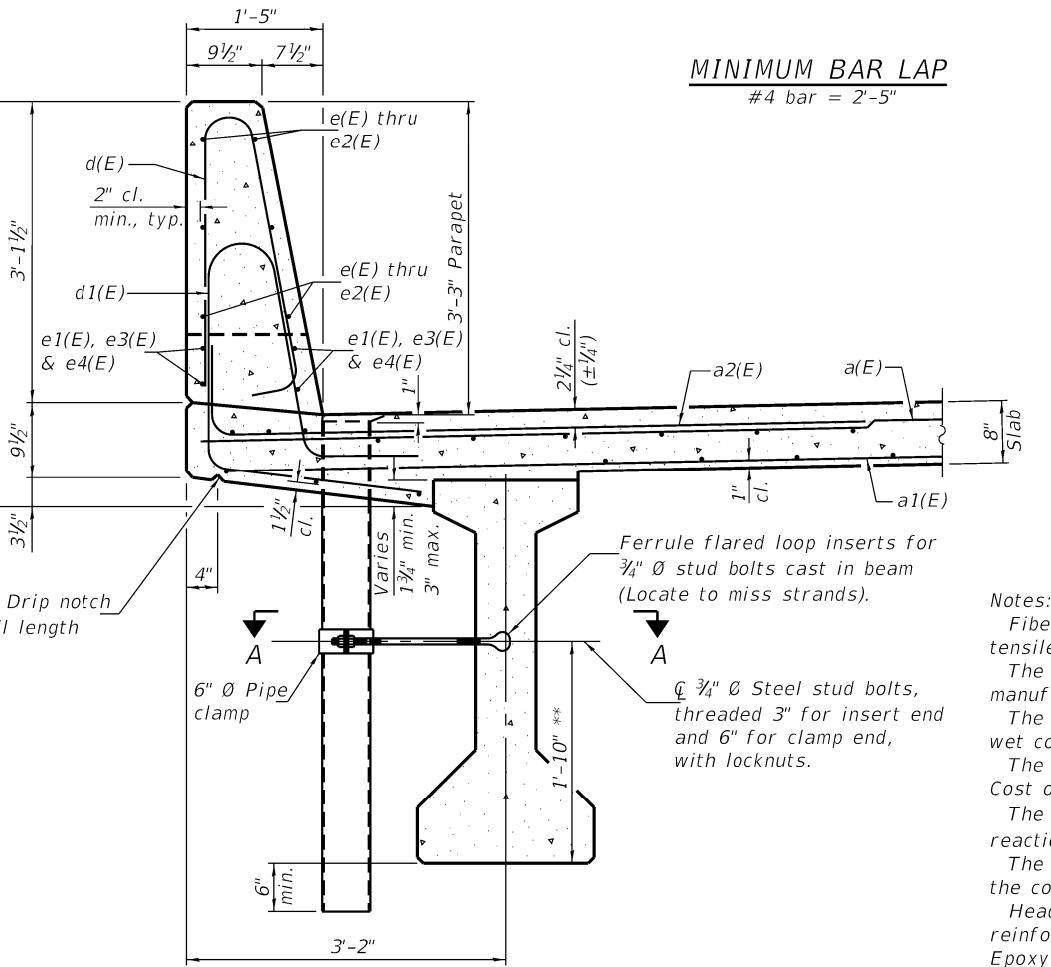
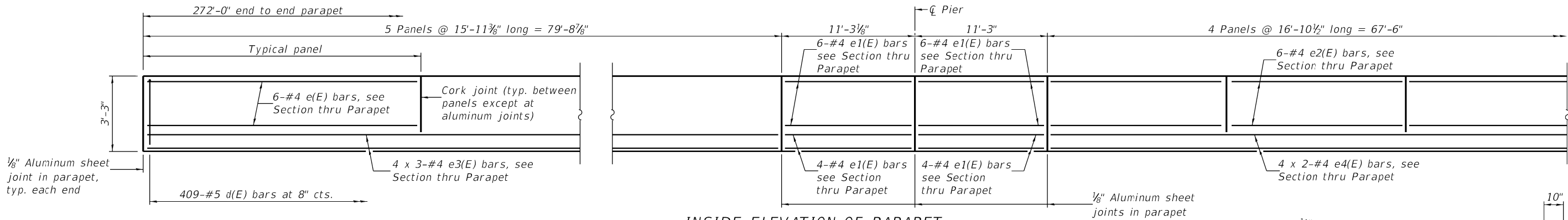
SOUTH CURB LINE			
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. Pav't.	34+42.00	-14.00	366.14
A3	34+52.00	-14.00	366.09
A4	34+62.00	-14.00	366.05
E. End of East Appr. Pav't.	34+72.00	-14.00	366.02



EAST APPROACH PLAN

E-AS

2-17-2017



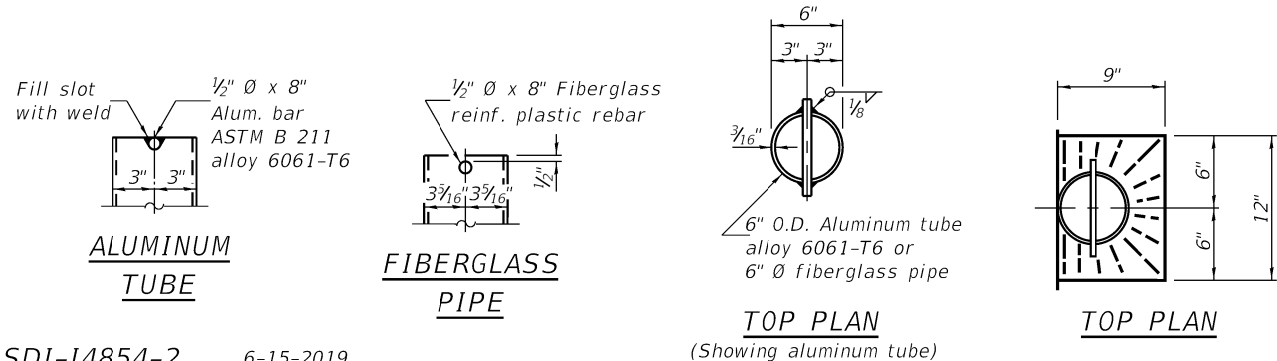
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	587	#5	30'-6"	
a1(E)	355	#5	28'-10"	
a2(E)	1,158	#6	8'-4"	
a3(E)	32	#5	1'-6"	
b(E)	136	#6	37'-11"	
b1(E)	132	#7	49'-6"	
b2(E)	44	#5	47'-0"	
b3(E)	216	#5	37'-1"	
b4(E)	34	#6	41'-6"	
d(E)	818	#5	6'-5"	
d1(E)	818	#5	8'-1"	
e(E)	120	#4	15'-7"	
e1(E)	80	#4	10'-11"	
e2(E)	48	#4	16'-6"	
e3(E)	48	#4	28'-2"	
e4(E)	16	#4	35'-0"	
m10(E)	12	#6	30'-6"	
m11(E)	24	#6	7'-4"	
m12(E)	16	#6	2'-7"	
m13(E)	6	#6	6'-0"	
m14(E)	4	#6	1'-11"	
m15(E)	16	#5	4'-0"	
m20(E)	12	#6	6'-0"	
m21(E)	48	#6	7'-4"	
m22(E)	16	#5	4'-0"	
s10(E)	50	#5	10'-8"	
s11(E)	50	#5	13'-5"	
s20(E)	42	#5	14'-6"	
Reinforcement Bars, Epoxy Coated			Lbs.	97,240
Concrete Superstructure			Cu Yd	295.0
Floor Drains			Each	10

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

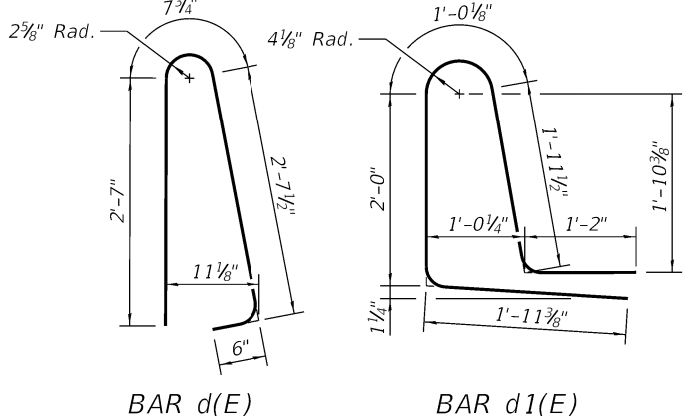
SECTION THRU PARAPET

**For insert locations, see sheet 1 of 32.



SECTION A-A

*Dimension as required by pipe clamp



SDI-I4854-2 6-15-2019

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
CHECKED -
DATE -

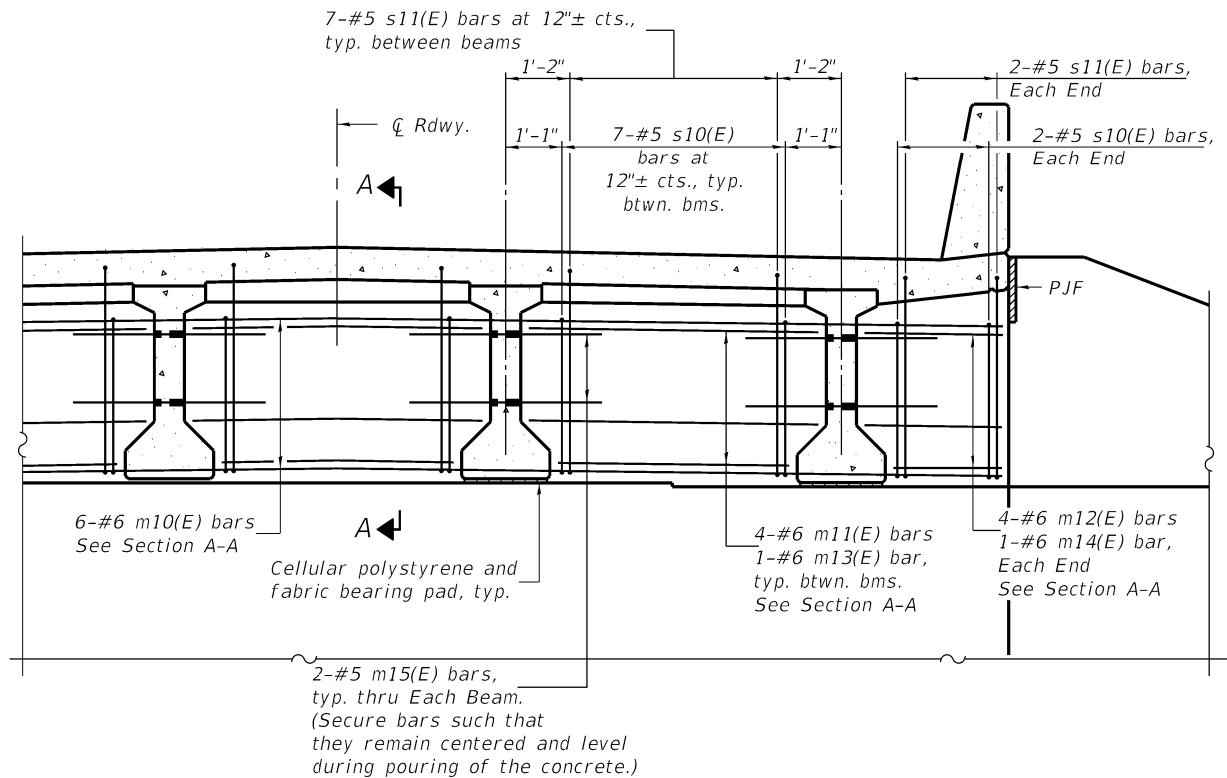
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

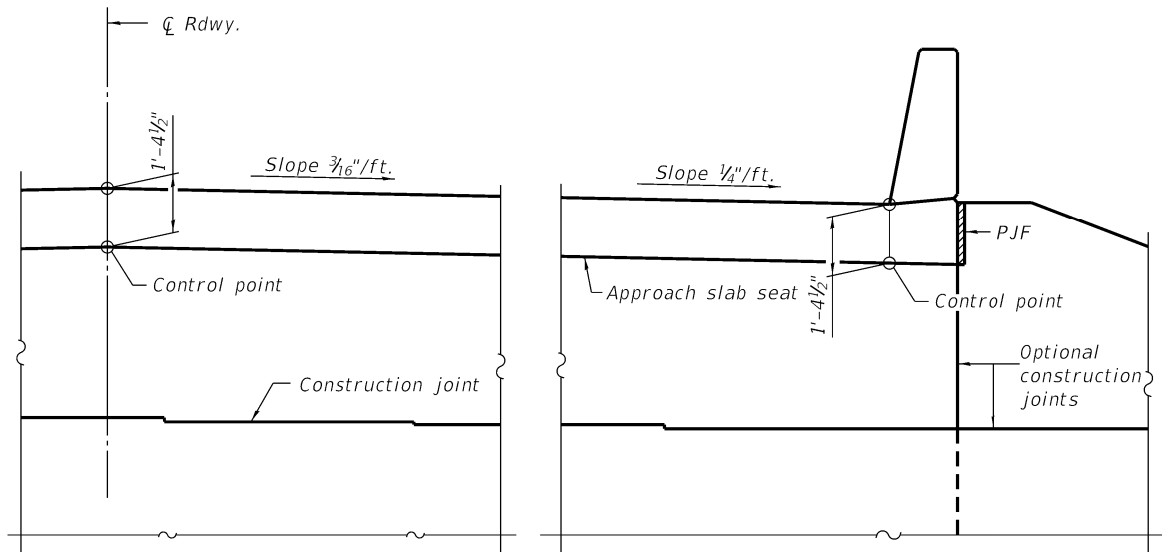
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 077-3145

SCALE: SHEET 11 OF 32 SHEETS STA. TO STA.

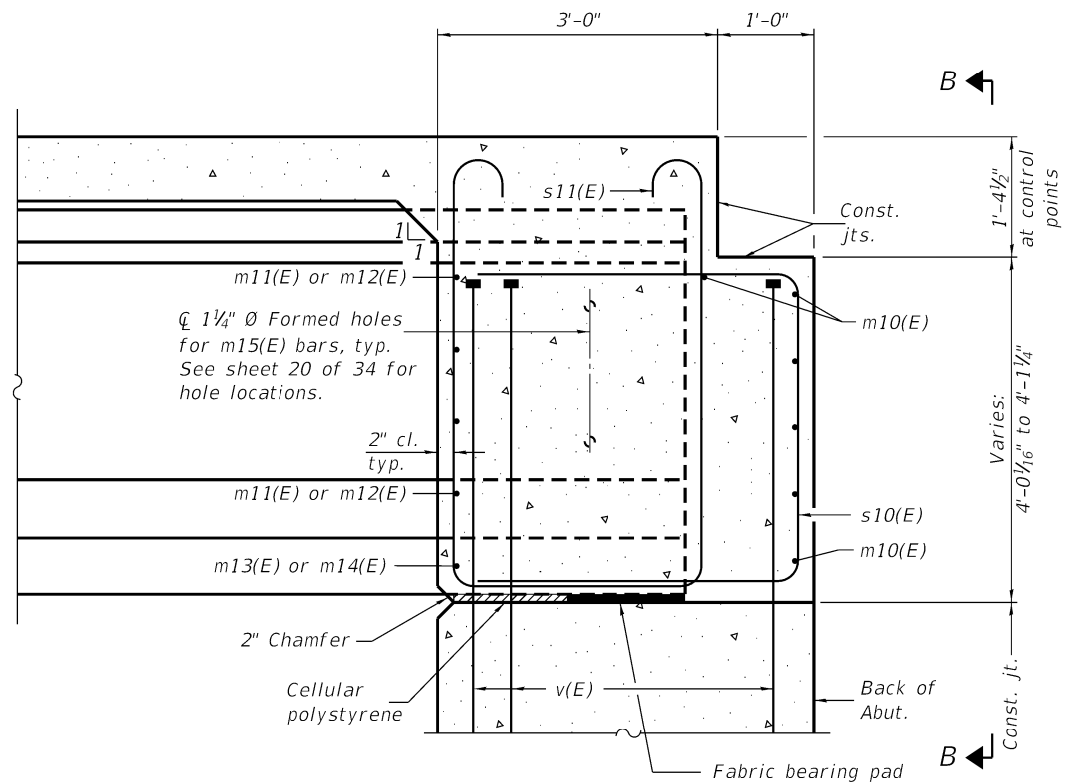
F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
937 12-00071-00-BR PULASKI 58 26
CONTRACT NO. 99678
ILLINOIS FED. AID PROJECT



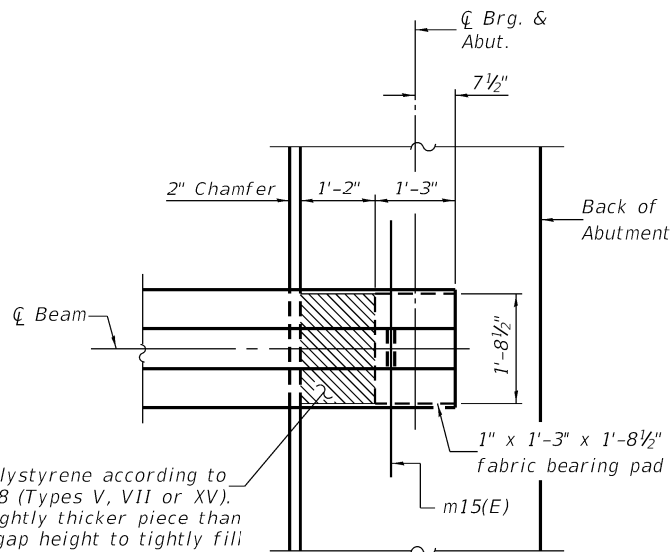
DIAPHRAGM AT ABUTMENT



VIEW B-B



SECTION A-A



Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.

PLAN AT ABUTMENT
(Showing bottom flange of beam)

- Notes:
- See sheet 11 of 32 for superstructure details and Bill of Material.
 - See sheet 17 of 32 for P.J.F. details.
 - The approach slab seat shall have a constant slope determined from the control points shown.
 - Cost of cellular polystyrene is included with Concrete Superstructure.

DIA-I4854-0

6-15-2019

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
PLOT SCALE = 2.0000' / in.
PLOT DATE = 10/7/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

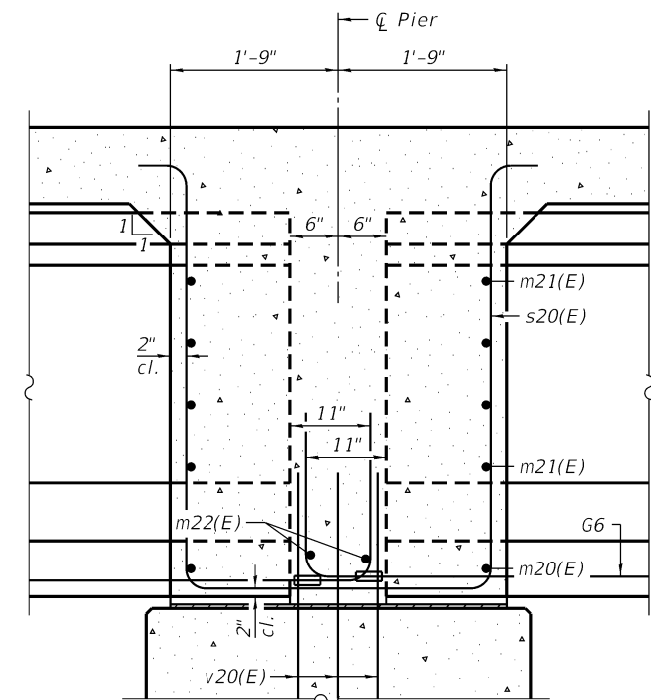
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

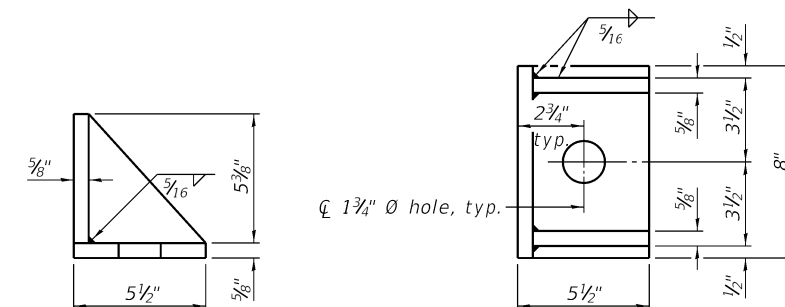
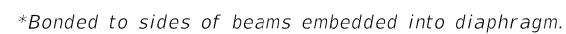
ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 077-3145

SCALE: SHEET 12 OF 32 SHEETS STA. TO STA.

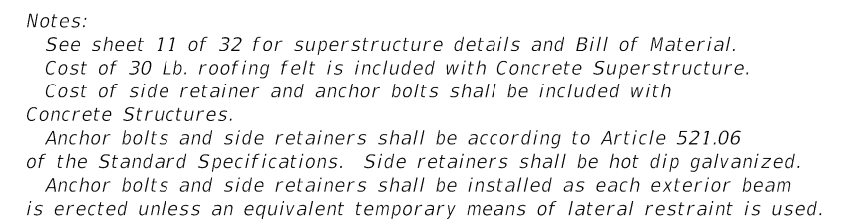
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	27
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



SECTION A-A



(2 required each side of pier).
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



6-15-2019

MODEL: Default
FILE NAME: H:\7073_PulaskiCo_CH2\2025-PSE_Updates\CAD_Sheets\0773000_28_dphp_13_7073.dgn

USER NAME	= bchristmann
PLOT SCALE	= 2.0000 ' / in.
PLOT DATE	= 10/7/2025

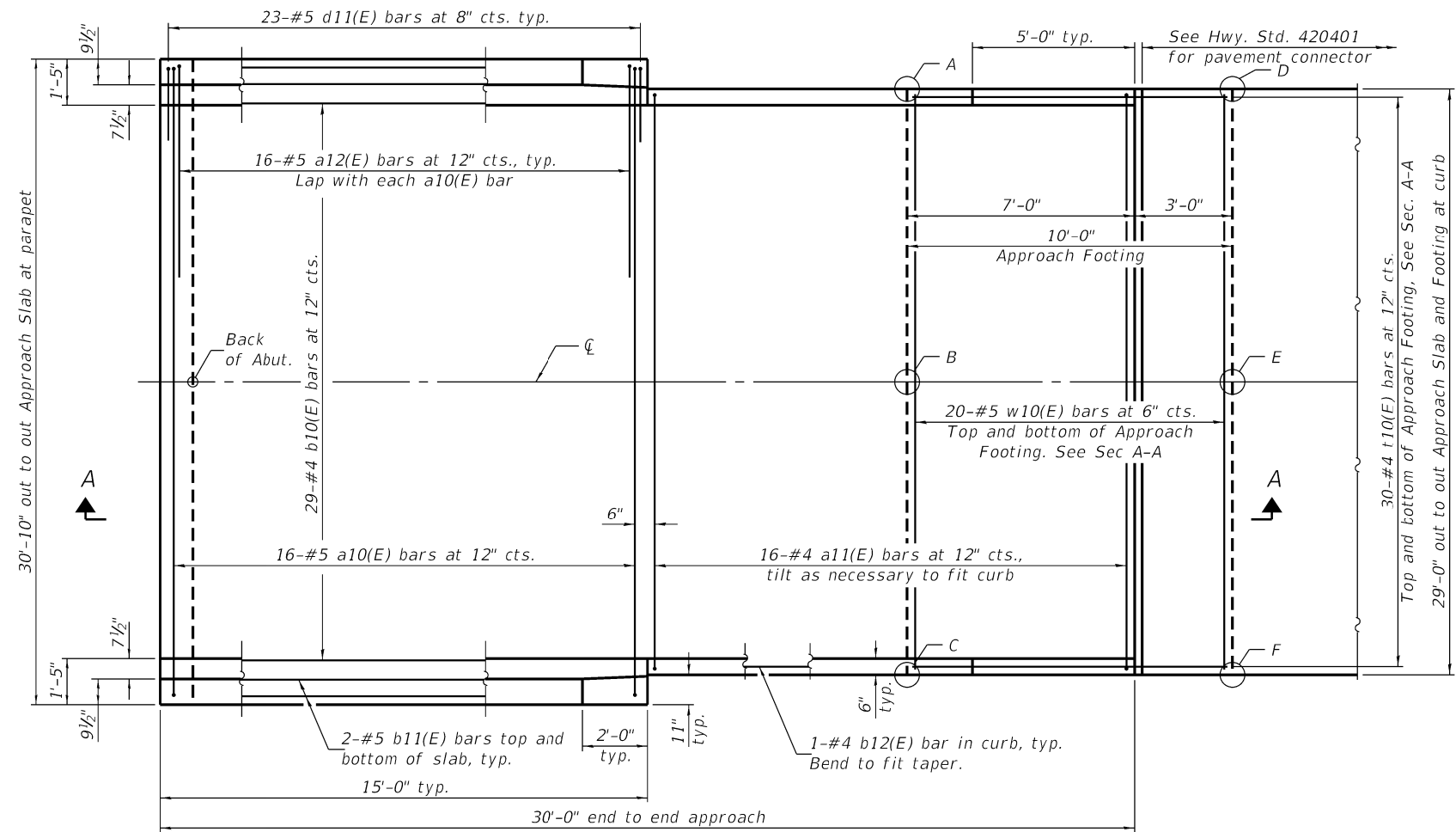
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

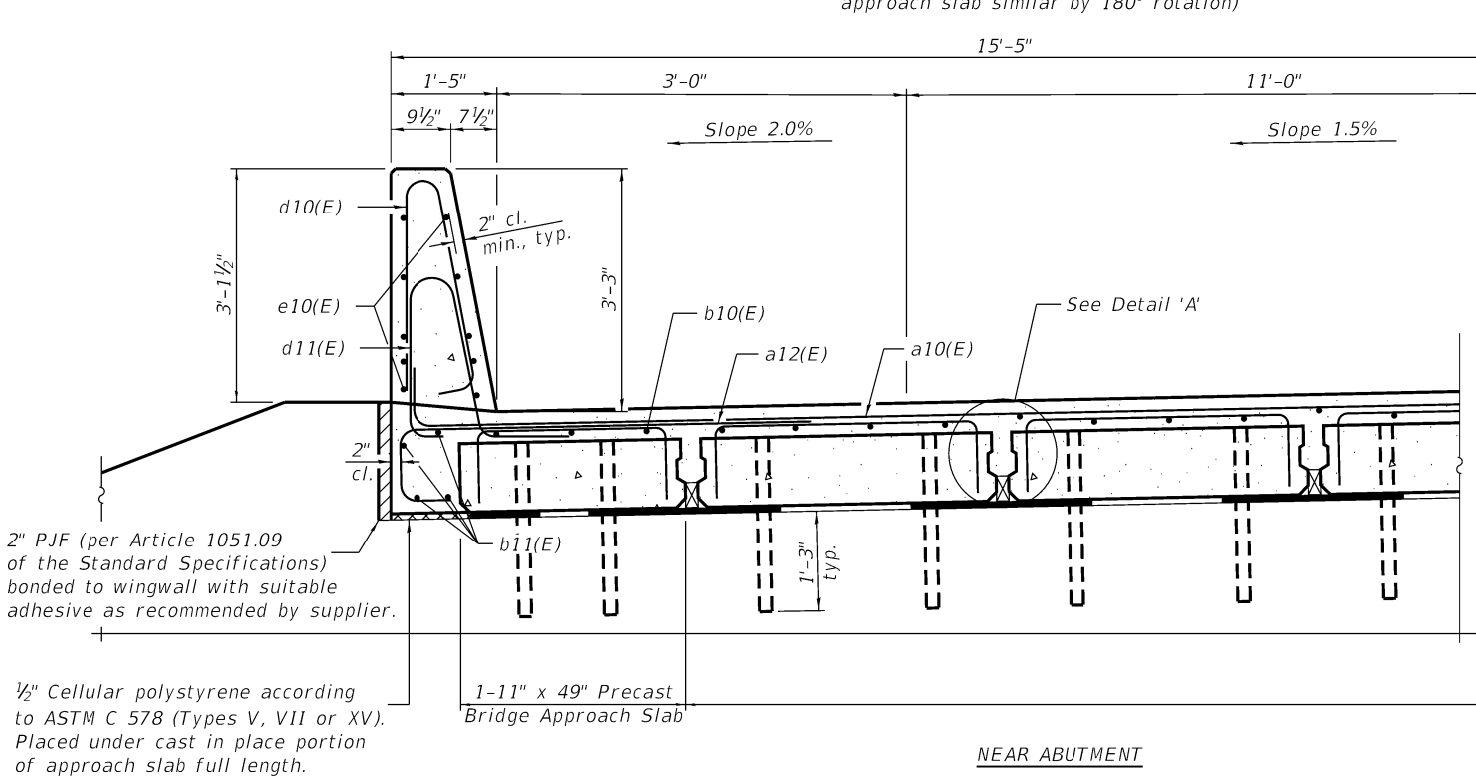
PIER DIAPHRAGM DETAILS
STRUCTURE NO. 077-3145

SCALE:	SHEET 13 OF 32 SHEETS	STA.	TO STA.
--------	-----------------------	------	---------

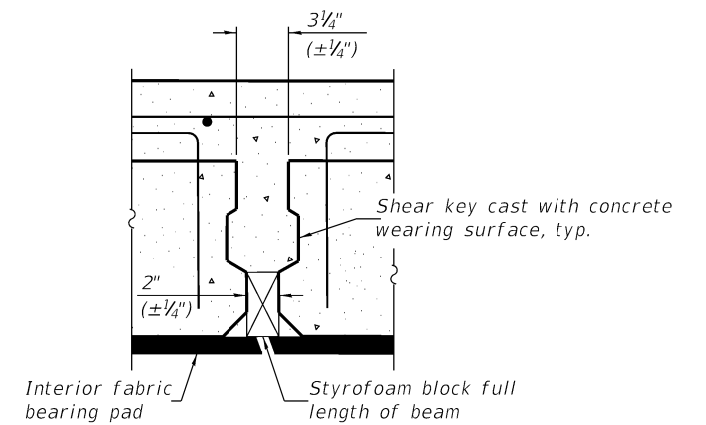
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	28
		CONTRACT NO. 99678		
		ILLINOIS FED. AID PROJECT		



PLAN
(East approach slab shown; West approach slab similar by 180° rotation)



CROSS SECTION
(Looking East)

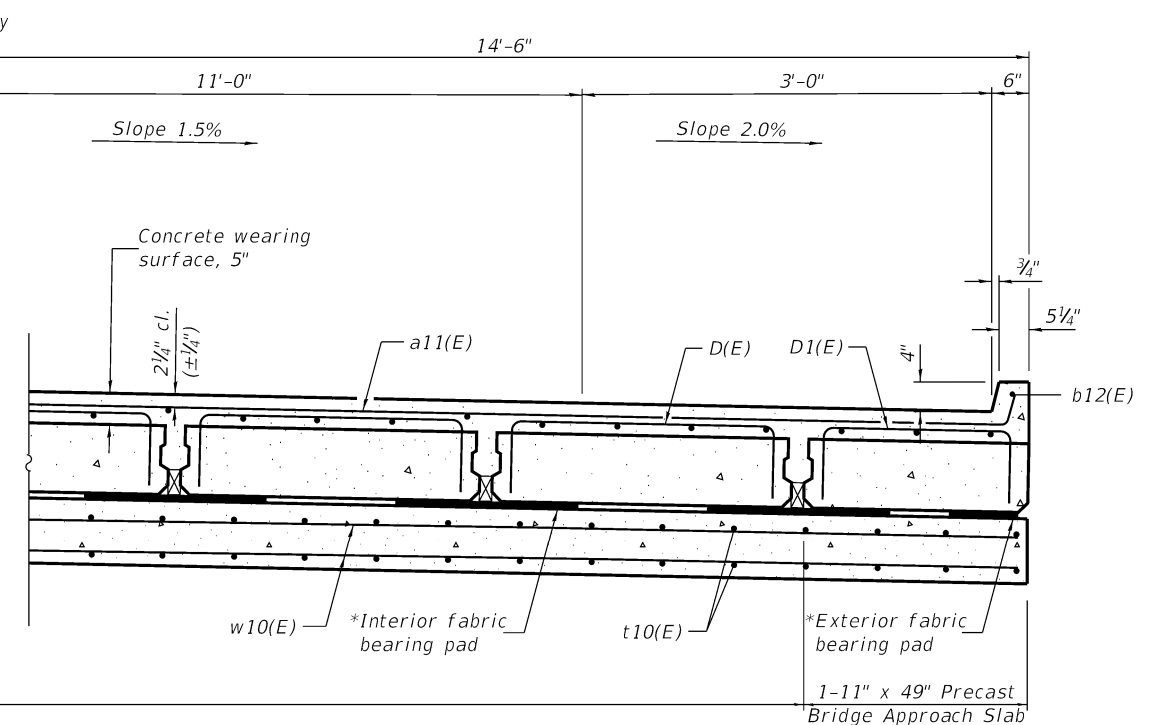


DETAIL 'A'

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

West Approach			East Approach		
Point/ Location	Top	Bottom	Point/ Location	Top	Bottom
A -	364.68	363.85	A -	364.65	363.82
B -	364.93	364.09	B -	364.90	364.06
C -	364.68	363.85	C -	364.65	363.82
D -	364.66	363.83	D -	364.63	363.80
E -	364.91	364.07	E -	364.88	364.04
F -	364.66	363.83	F -	364.63	363.80

* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.



AT APPROACH FOOTING

BA-P-39CS-0

10-12-2021

(Beams: 36" min. width; 72" max. width)

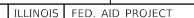
(Sheet 1 of 3)

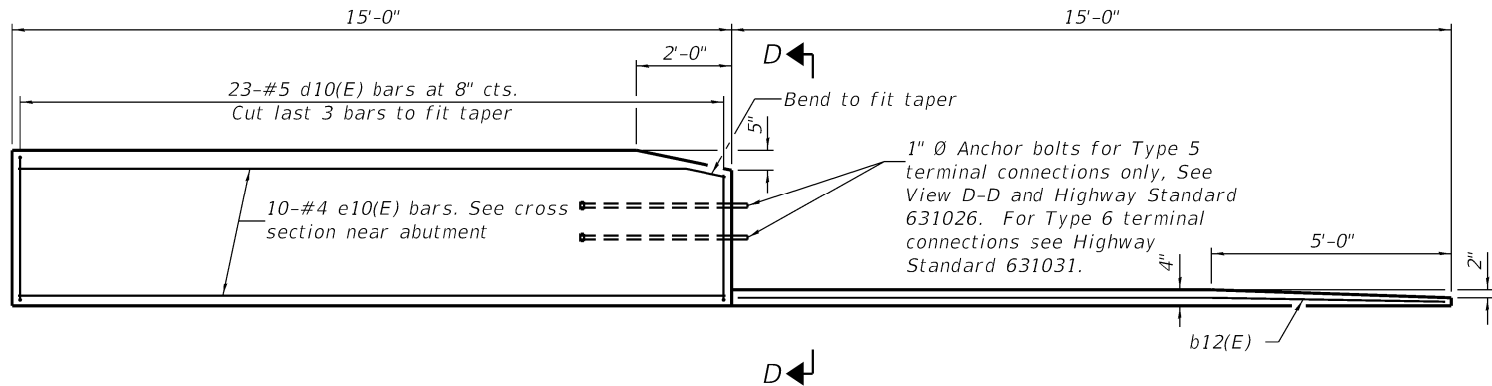
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 077-3145**

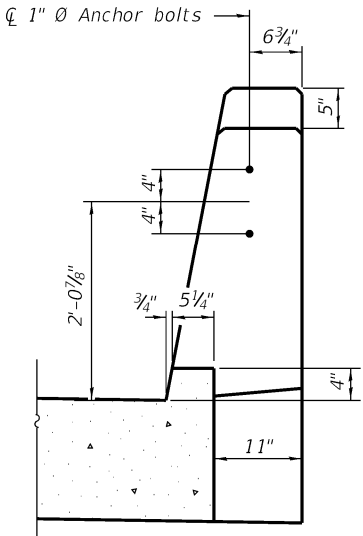
SCALE: SHEET 14 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	29
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

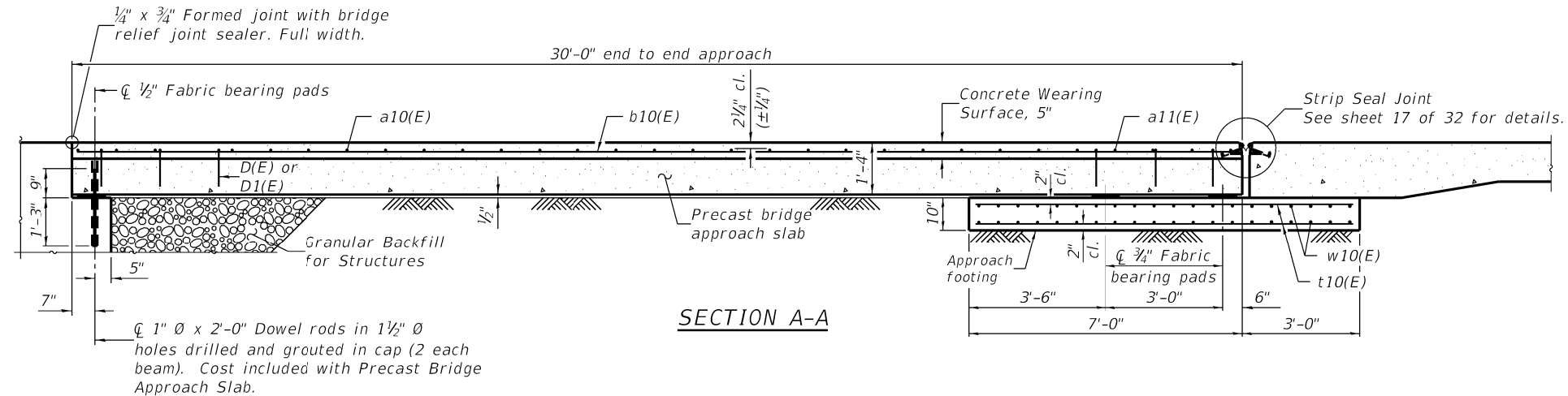




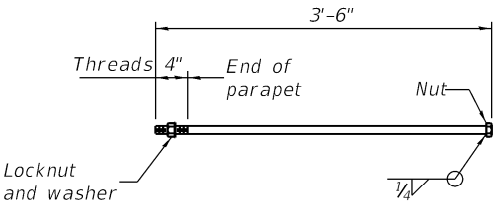
INSIDE ELEVATION OF PARAPET AND CURB



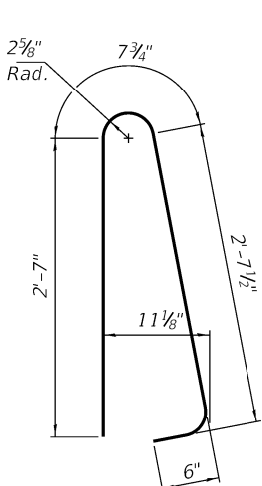
VIEW D-D



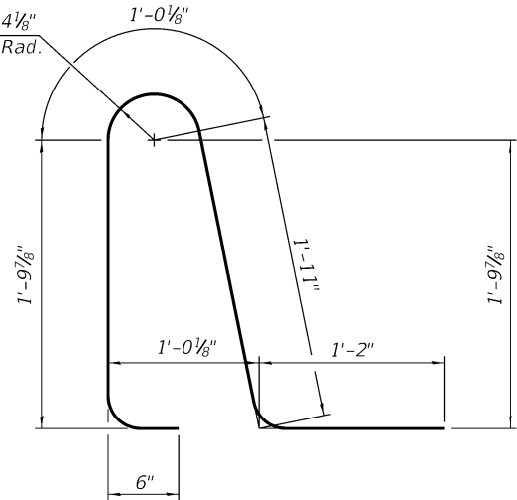
SECTION A-A



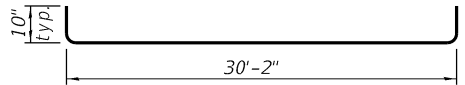
1" Ø ANCHOR BOLT



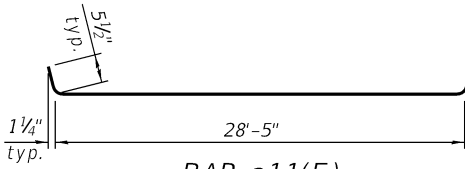
BAR d10(E)



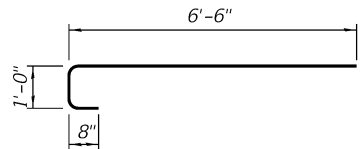
BAR d11(E)



BAR a10(E)



BAR a11(E)



BAR a12(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	32	#5	31'-10"	
a11(E)	32	#4	29'-4"	
a12(E)	64	#5	8'-2"	
b10(E)	58	#4	29'-8"	
b11(E)	16	#5	14'-8"	
b12(E)	4	#5	14'-8"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	6'-5"	
e10(E)	40	#4	14'-8"	
t10(E)	120	#4	9'-8"	
w10(E)	80	#5	28'-8"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Structures			Cu. Yd.	17.9
Reinforcement Bars, Epoxy Coated			Pound	8,480
Precast Bridge Approach Slab			Sq. Ft.	1,690
Concrete Wearing Surface, 5"			Sq. Yd.	200

BA-P-39CS-0

10-12-2021

(Beams: 36" min. width; 72" max. width)

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
PLOT SCALE = 2.0000" / in.
CHECKED -
DATE -
PLOT DATE = 10/7/2025

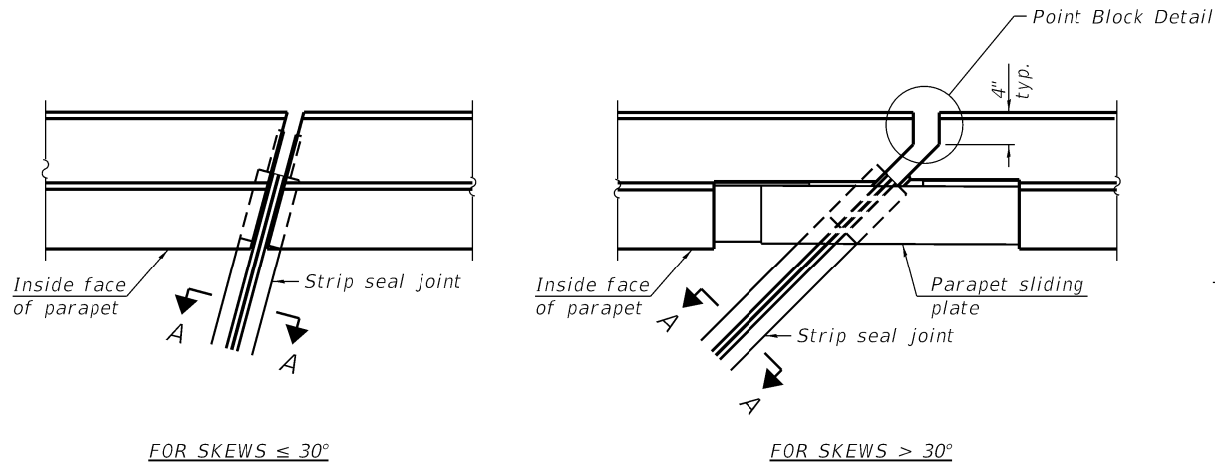
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 077-3145

SCALE: SHEET 16 OF 32 SHEETS STA. TO STA.

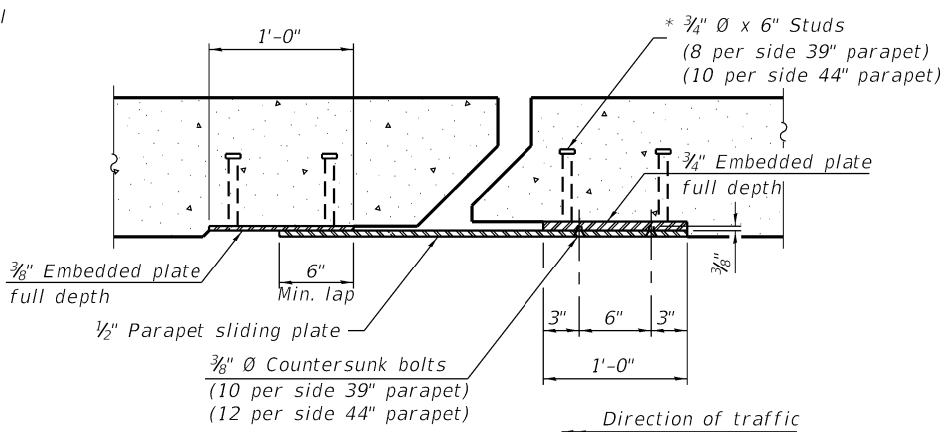
F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
937 12-00071-00-BR PULASKI 58 31
CONTRACT NO. 99678
ILLINOIS FED. AID PROJECT



FOR SKEWS $\leq 30^\circ$

FOR SKEWS $> 30^\circ$

PLAN AT PARAPET



SECTION B-B

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

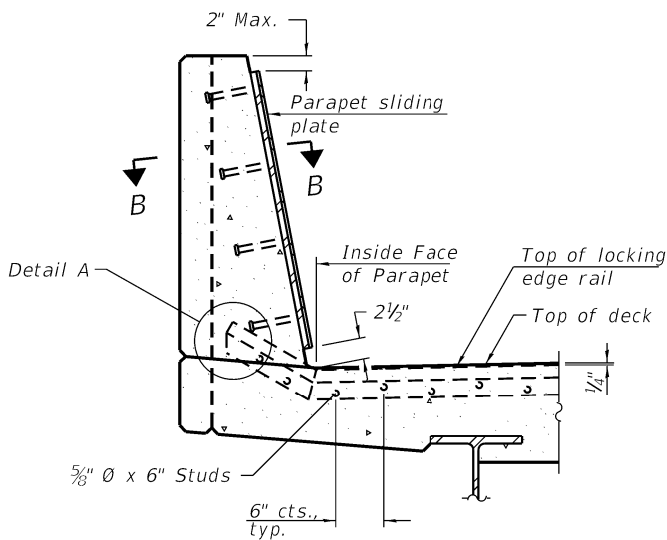
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

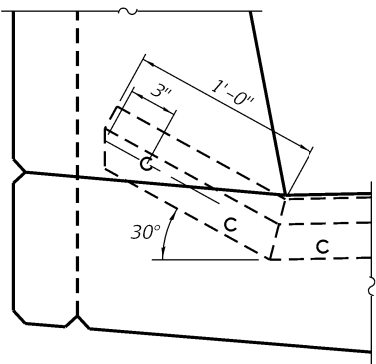
39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

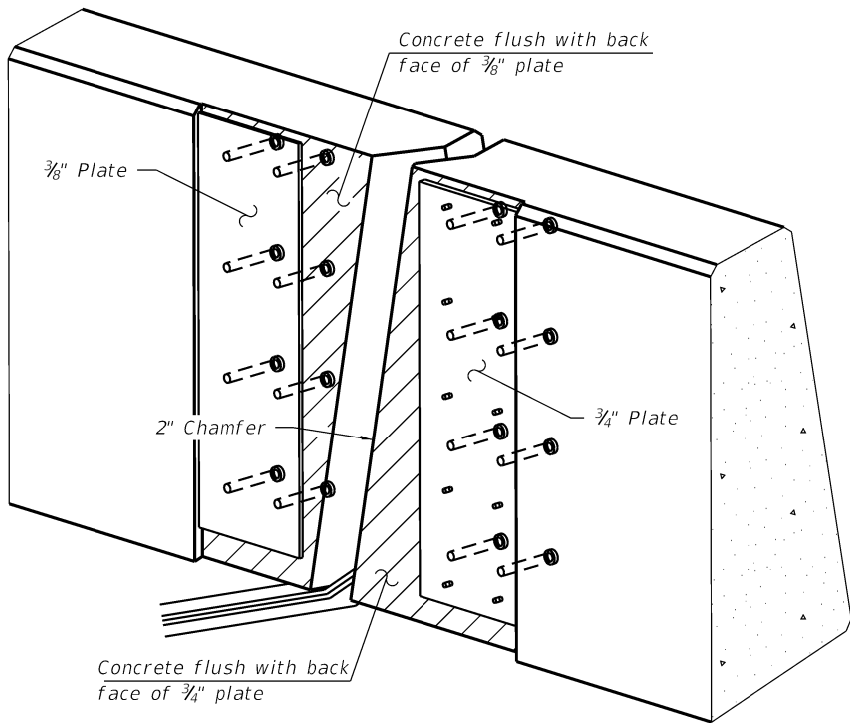


SECTION AT PARAPET

(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)

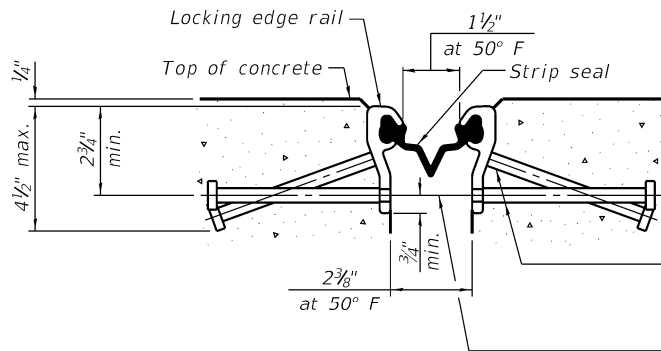


DETAIL A



TRIMETRIC VIEW

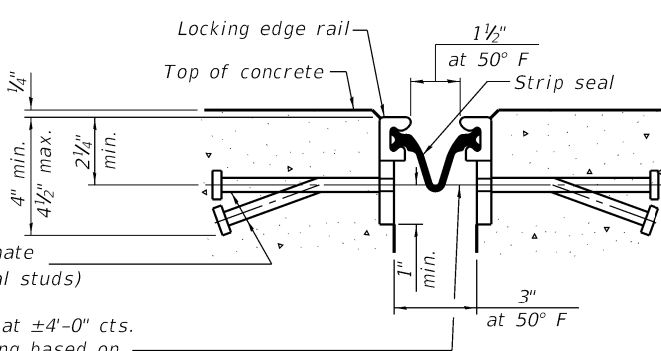
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

* $\frac{3}{8}$ " ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

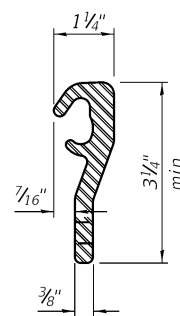
$\frac{3}{8}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



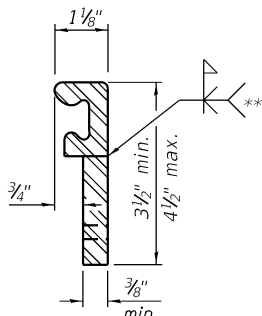
SHOWING WELDED RAIL JOINT

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



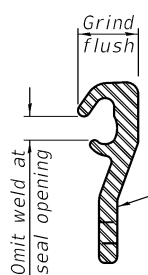
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	58

EJ-SS

1-1-2020

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
PLOT SCALE = 2.0000" / in.
PLOT DATE = 10/7/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

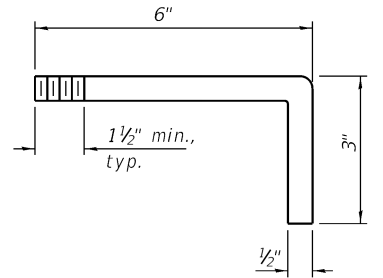
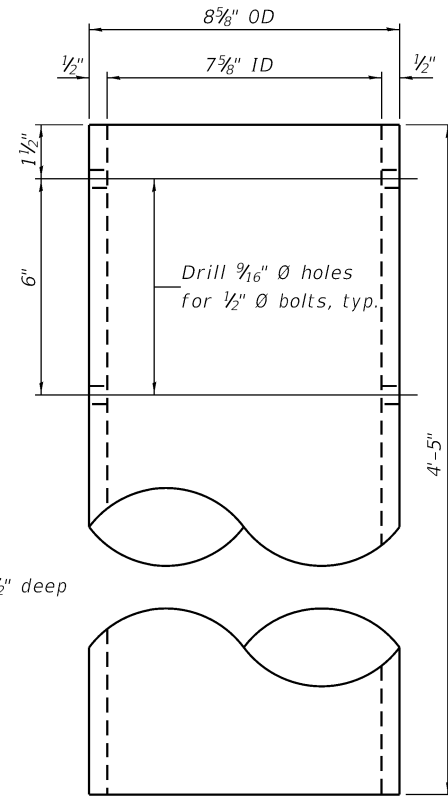
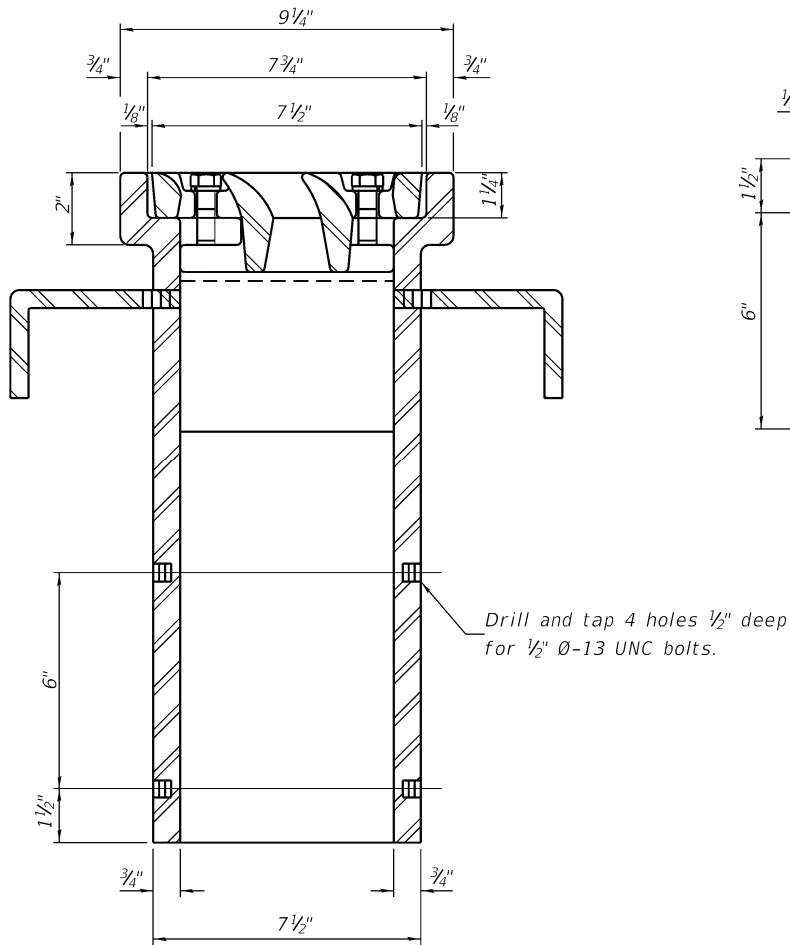
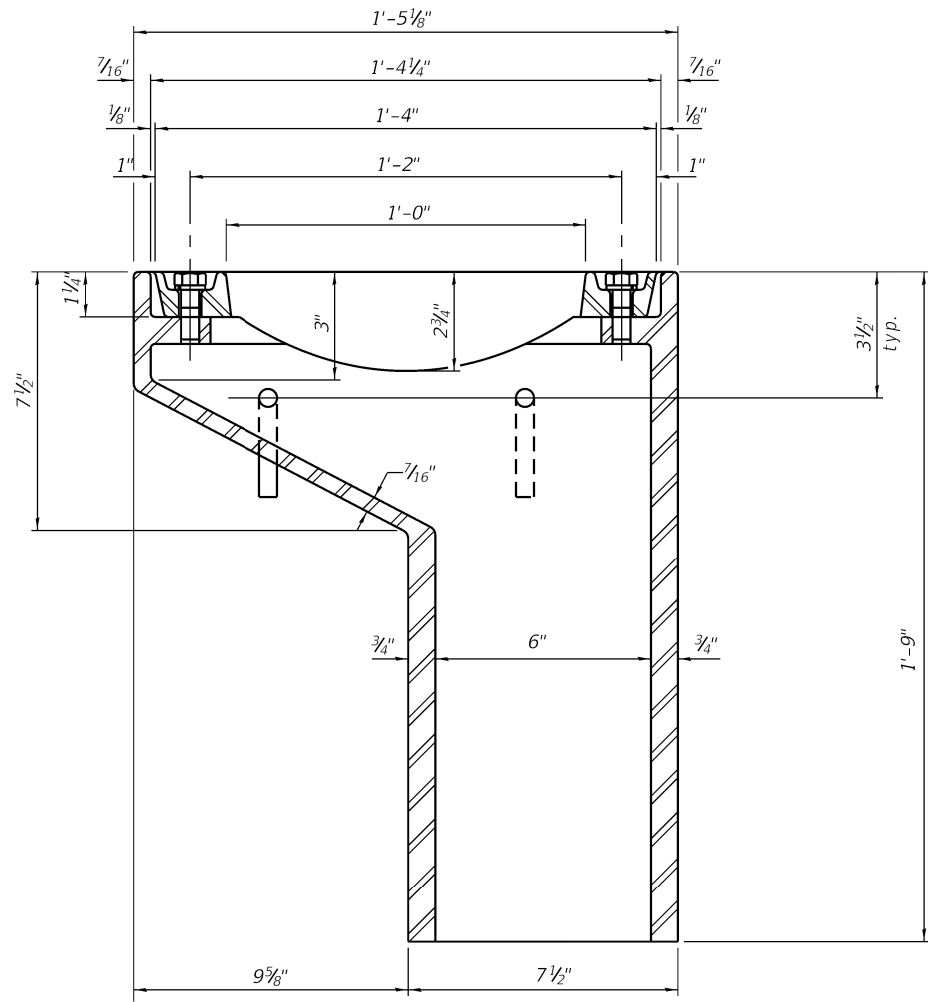
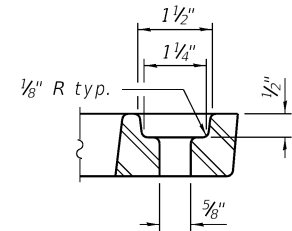
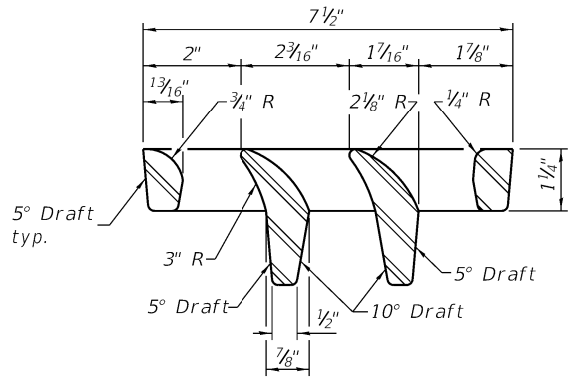
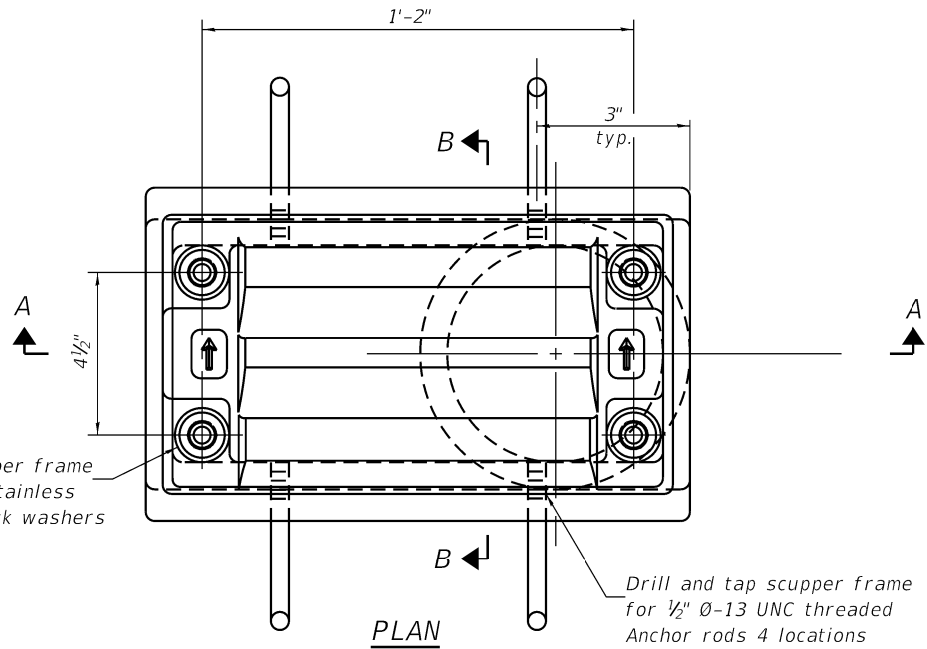
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 077-3145

SCALE: SHEET 17 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	32
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



See sheets 1 & 2 of 32 for scupper location relative to parapet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.

Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.

Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.

As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.

Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented by the manufacturer with a color that matches the concrete.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.

DS-11

1-1-2020

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristman
PLOT SCALE = 2.0000' / in.
PLOT DATE = 10/7/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

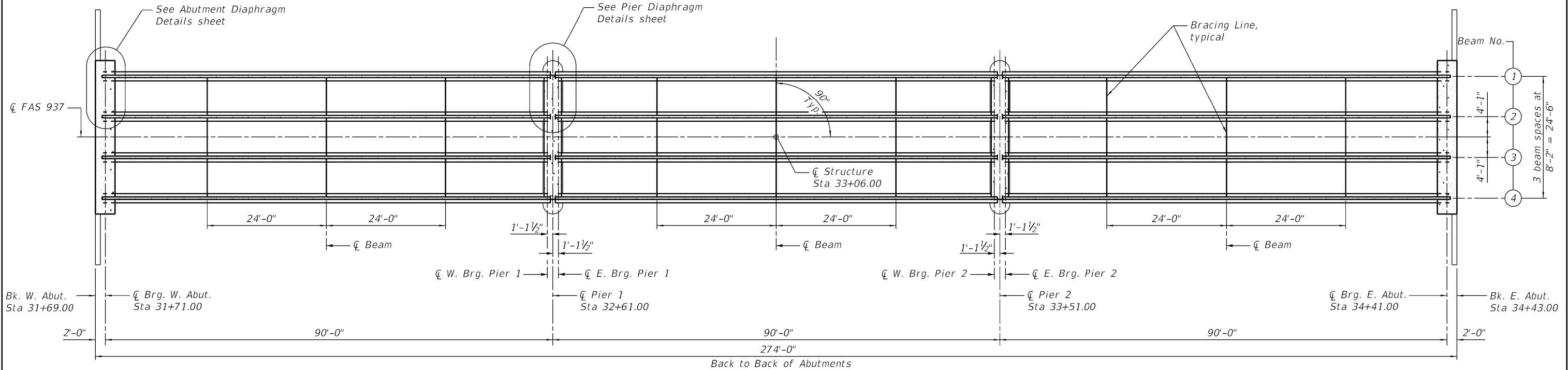
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
STRUCTURE NO. 077-3145

SCALE: SHEET 18 OF 32 SHEETS STA. TO STA.

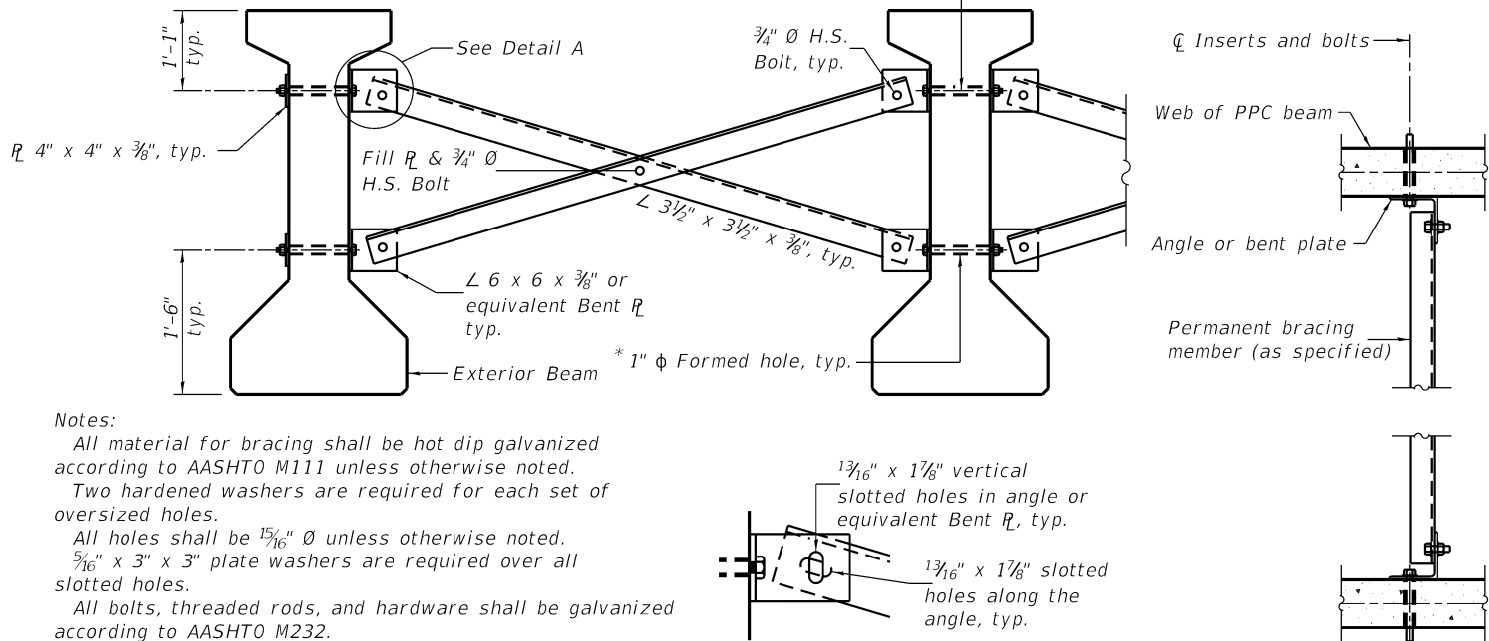
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	33
				CONTRACT NO. 99678
				ILLINOIS FED. AID PROJECT



FRAMING PLAN

*Fabricator shall locate to miss strands within permissible tolerances.

$\frac{3}{4}$ " \varnothing Threaded rods with lock nuts, typ. Tightened to snug tight only.



Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

Two hardened washers are required for each set of oversized holes.

All holes shall be $\frac{15}{16}$ " \varnothing unless otherwise noted.

$\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.

All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

PERMANENT BRACING DETAILS FOR
48" AND 54" PPC I-BEAMS

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I	(in ⁴)	213,715		213,715
I'	(in ⁴)	541,883		541,883
Sb	(in ³)	8,559		8,559
Sb'	(in ³)	13,090		13,090
St	(in ³)	7,362		7,362
St'	(in ³)	42,996		42,996
DC1	(k/')	1.472		1.472
MDC1	(k)	1,475		1,438
DC2	(k/')	0.525	0.525	0.525
MDC2	(k)	186.0	232.5	58.1
DW	(k/')	0.408	0.408	0.408
MDW	(k)	226.8	283.3	70.9
M _L + IM	(k)	1,943	1,876	1,564

I: Non-composite moment of inertia of beam section (in⁴).
I': Composite moment of inertia of beam section (in⁴).
Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
Sb': Composite section modulus for the bottom fiber of the prestressed beam (in³).
St: Non-composite section modulus for the top fiber of the prestressed beam (in³).
St': Composite section modulus for the top fiber of the prestressed beam (in³).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM REACTION TABLE				
		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
RDC1	(k)	70.8	70.8	70.8
* RDC2	(k)	10.5	14.2	14.2
* RDW	(k)	12.6	17.1	17.1
* R _L + IM	(k)	109.3	98.2	98.2
RTotal	(k)	203.2	200.3	200.3

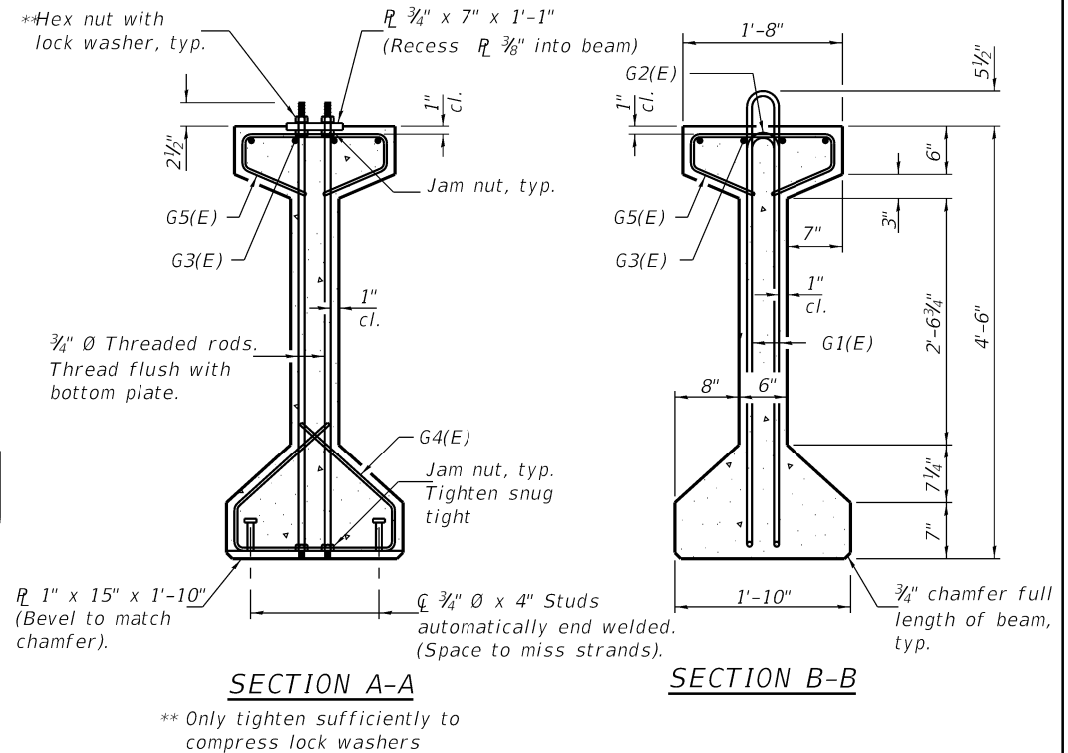
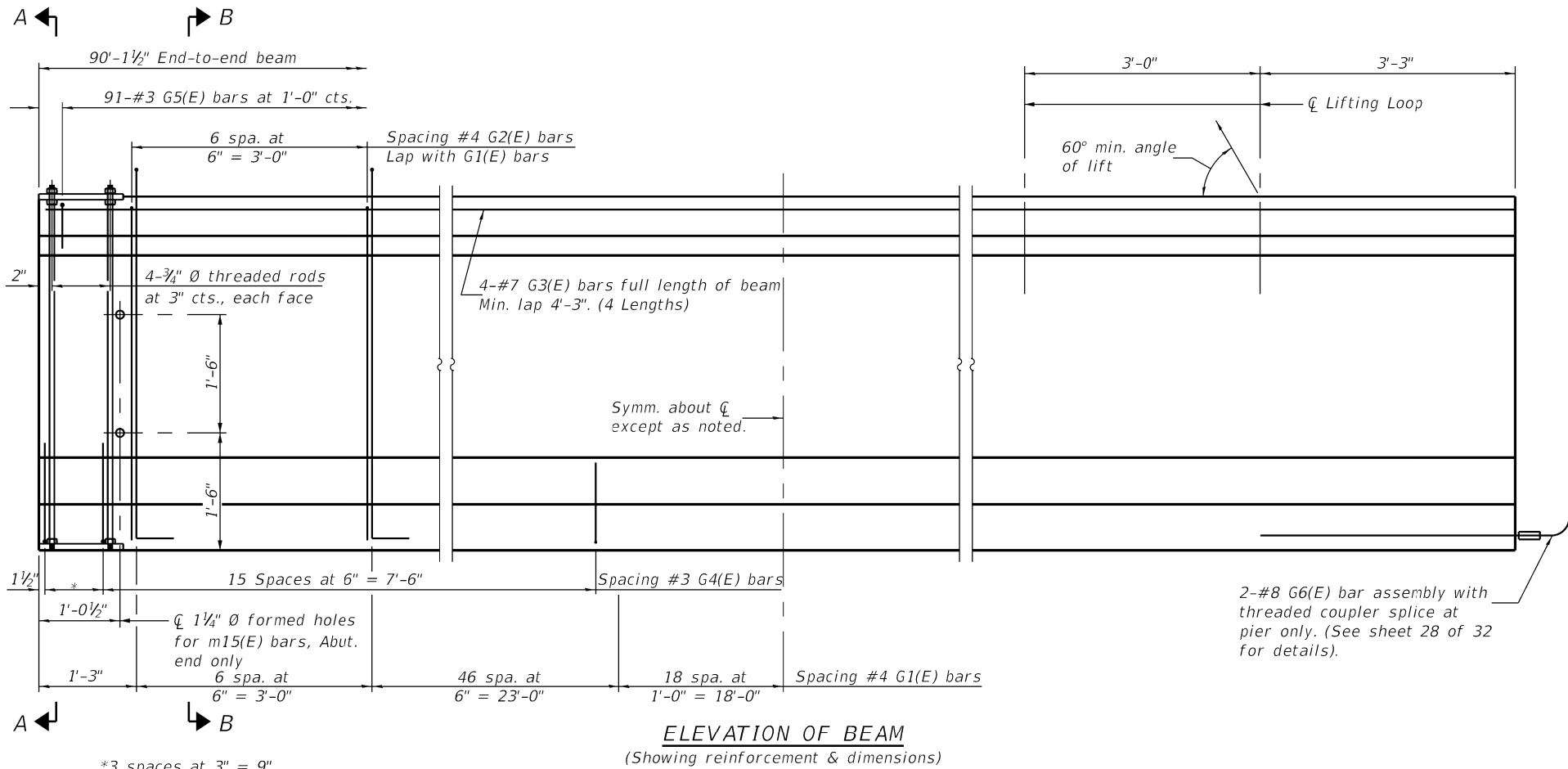
* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 077-3145

SCALE: SHEET 19 OF 32 SHEETS STA. TO STA.

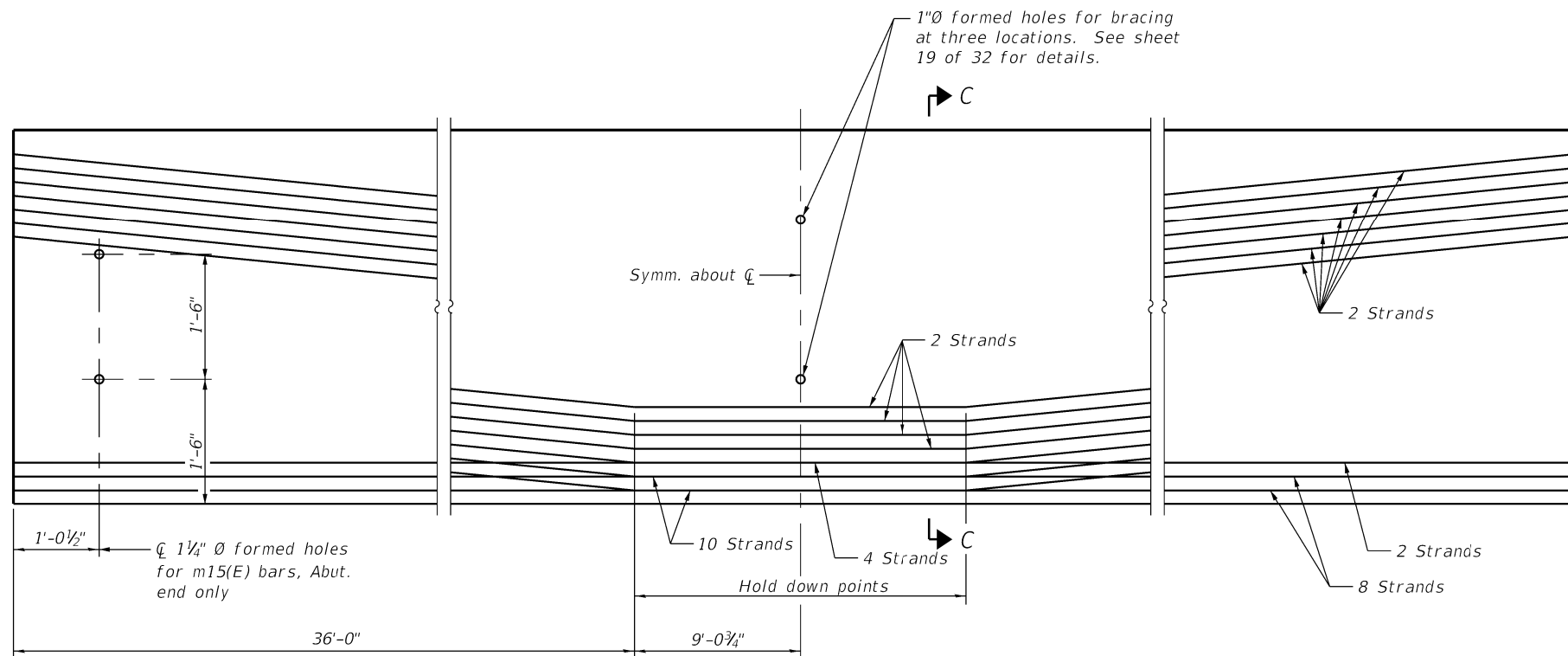
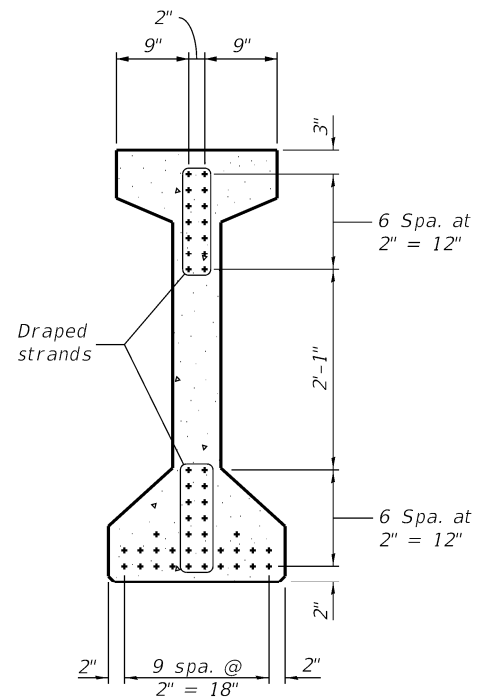
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	34
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	139	#4	10'-7"	⌚
G2(E)	14	#4	8'-8"	⌚
G3(E)	16	#7	25'-9"	⌚
G4(E)	38	#3	4'-11"	⌚
G5(E)	91	#3	3'-5"	⌚
G6(E)	2	#8	6'-6"	⌚

Notes:
See sheet 22 of 32 for additional details and Bill of Material.



PI-4-54

2-17-2017

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

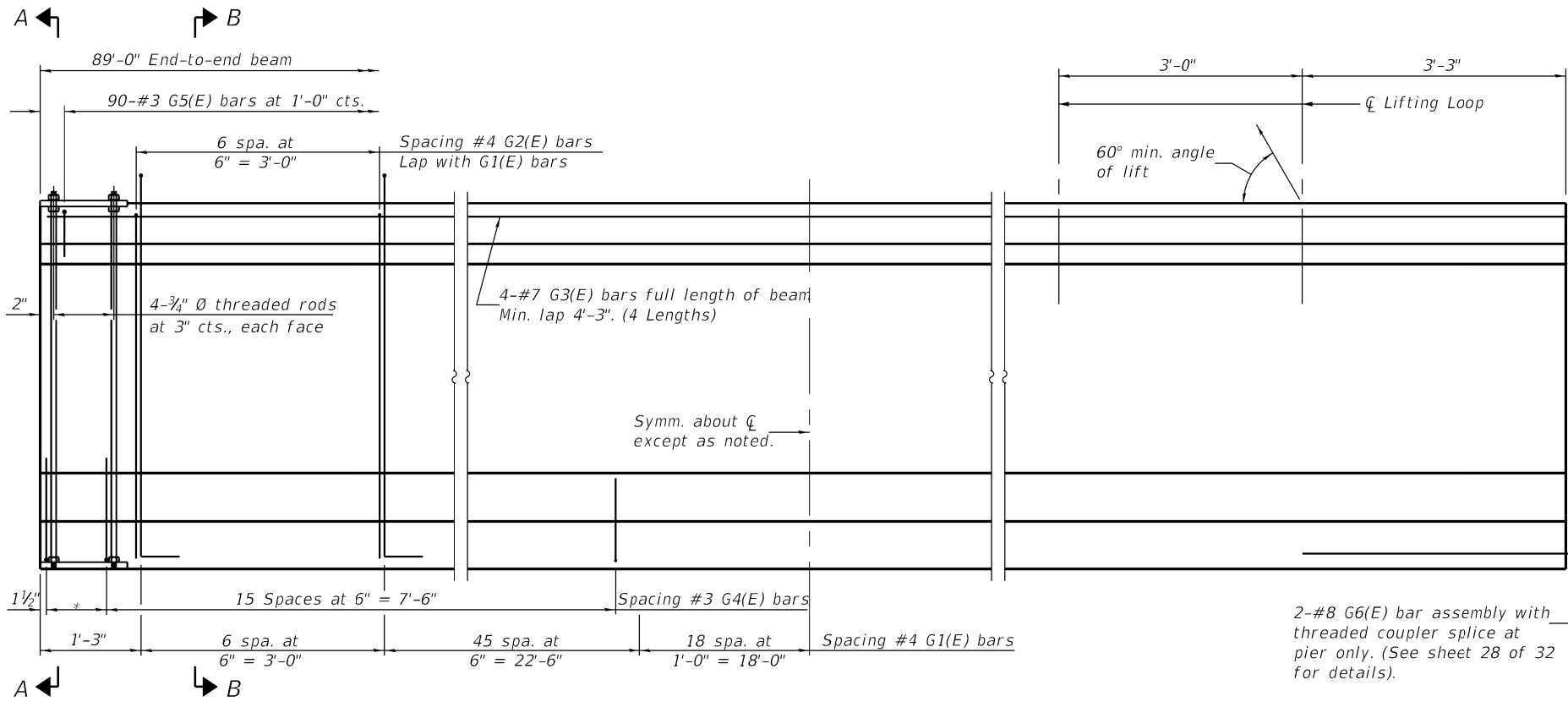
USER NAME = bchristmann	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/7/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

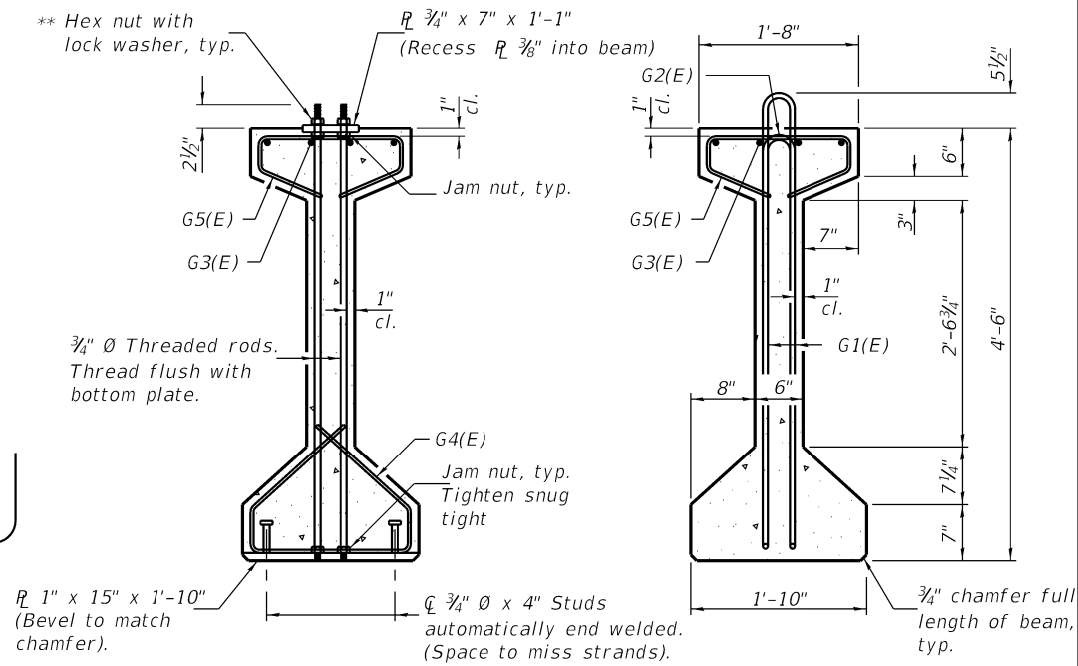
54" PPC I-BEAM - SPANS 1 & 3
STRUCTURE NO. 077-3145

SCALE: SHEET 20 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	35
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



ELEVATION OF BEAM
(Showing reinforcement & dimensions)



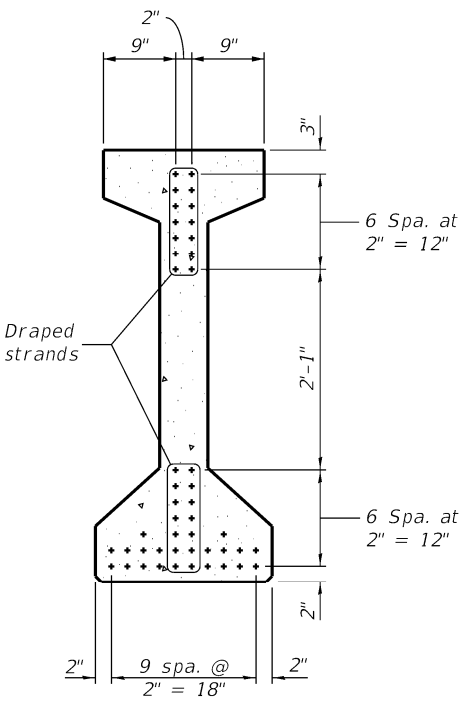
SECTION A-A
** Only tighten sufficiently to compress lock washers

SECTION B-B

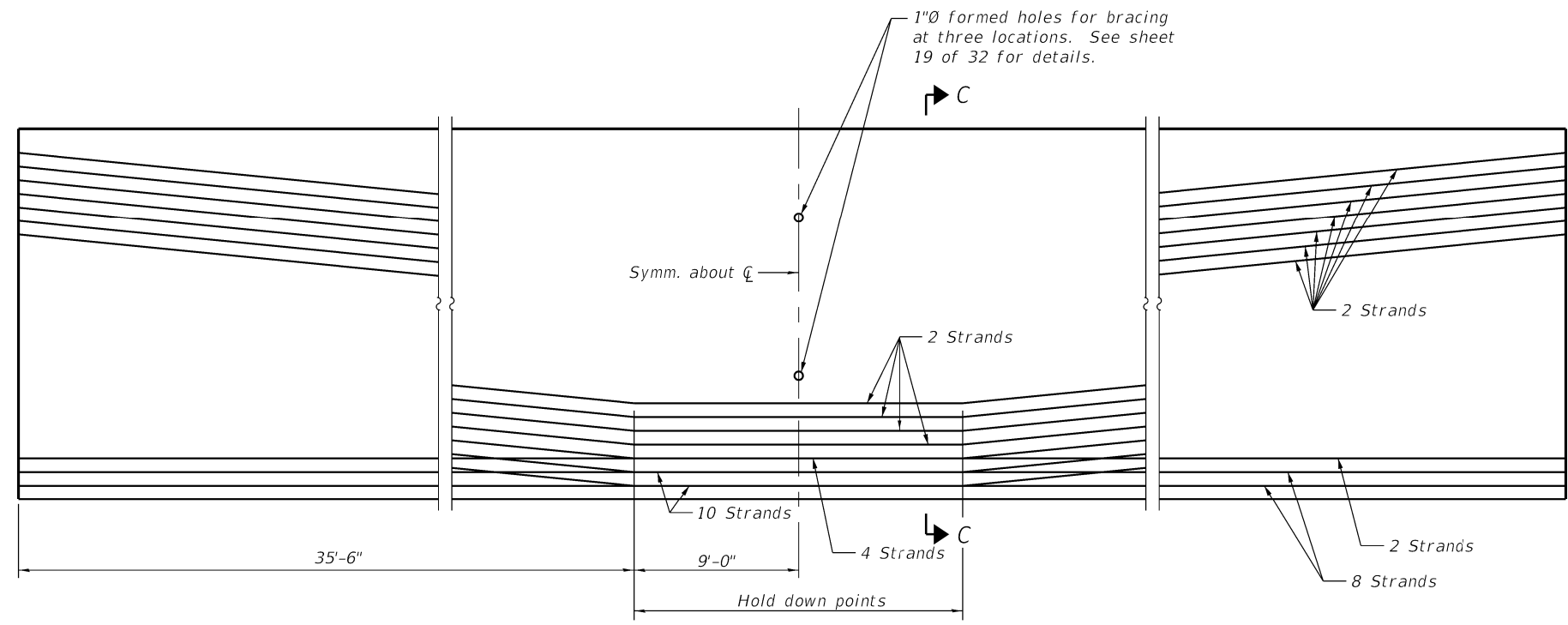
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
G1(E)	138	#4	10'-7"	nl
G2(E)	14	#4	8'-8"	n
G3(E)	16	#7	25'-6"	—
G4(E)	38	#3	4'-11"	δ
G5(E)	90	#3	3'-5"	γ
G6(E)	4	#8	6'-6"	┘

Notes:
See sheet 22 of 32 for additional details and Bill of Material.



SECTION C-C
(32 - 1/2" Ø 270 ksi strands)



ELEVATION OF BEAM
(Showing prestressing steel)

PI-4-54

2-17-2017

HMG ENGINEERS
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184.000899

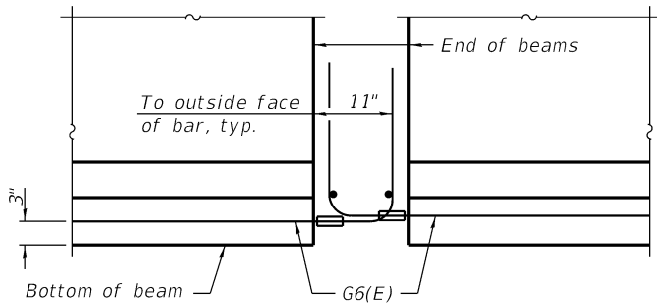
USER NAME	= bchristmarn	DESIGNED	-
DRAWN	-	REVISED	-
PLOT SCALE	= 2.0000' / in.	CHECKED	-
PLOT DATE	= 10/7/2025	REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

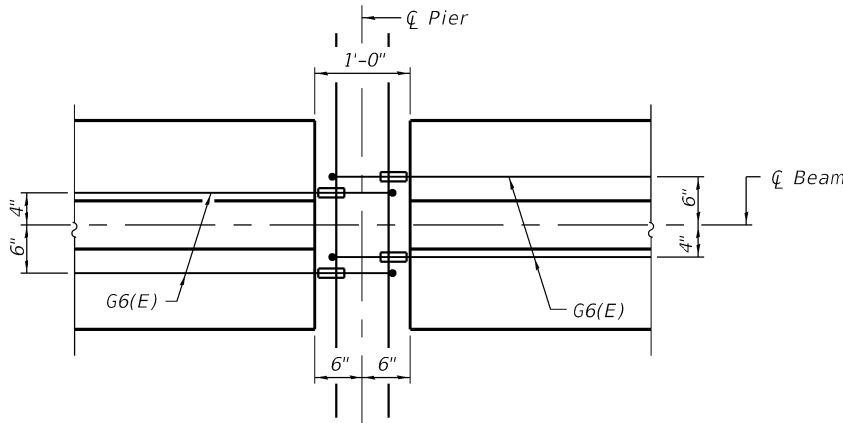
54" PPC I-BEAM - SPAN 2
STRUCTURE NO. 077-3145

SCALE: SHEET 21 OF 32 SHEETS STA. TO STA.

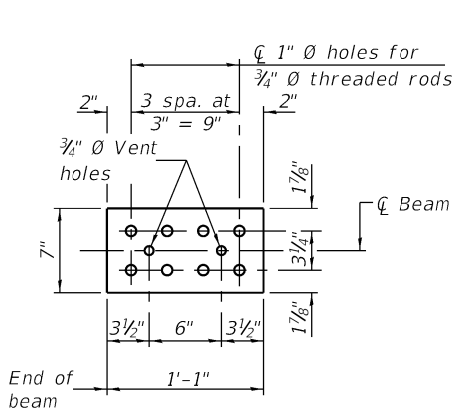
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	36
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



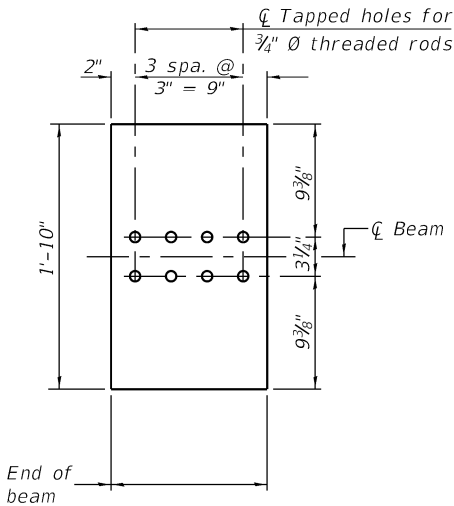
ELEVATION OF BEAM AT PIER



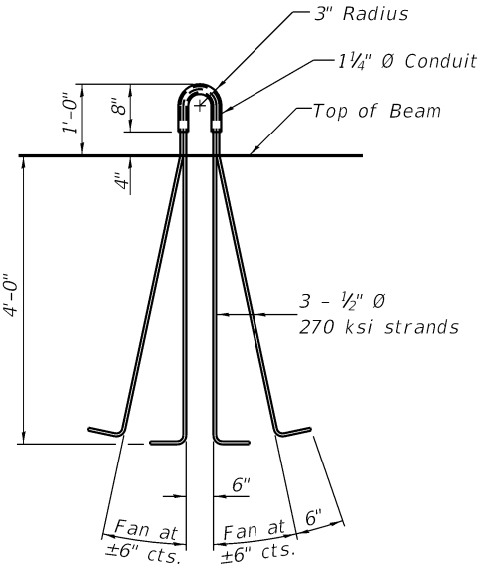
PLAN OF BEAM AT PIER



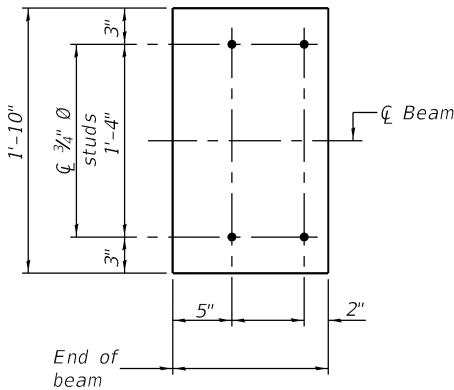
TOP PLATE



BOTTOM PLATE
(Showing threaded rods)



LIFTING LOOP DETAIL



BOTTOM PLATE
(Showing studs)

See bearing details for pintle
hole locations when required.

NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The beams shall have a final concrete compressive strength, f'c, of 7,000 psi and a release concrete compressive strength, f'ci, of 6,000 psi.

A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.

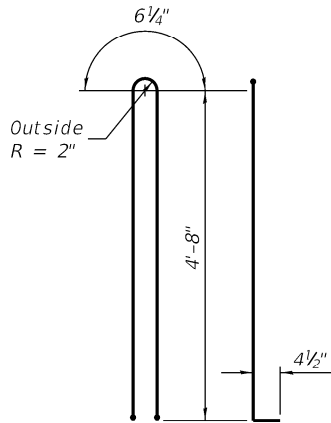
Tilt G6(E) bars when necessary to maintain 1 1/2" clearance.

The top and bottom plates shall be AASHTO M270 Grade 50.

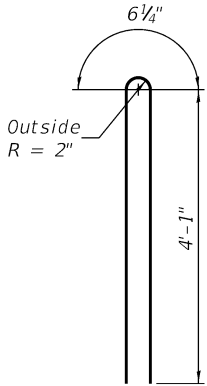
The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.

Threaded rods shall be ASTM F 1554 Grade 55.

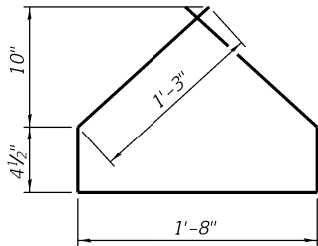
The G6(E) bar assembly shall develop, in tension, at least 125 percent of the yield strength of a grade 60 reinforcement bar times the nominal cross-sectional area of a #8 bar. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar.



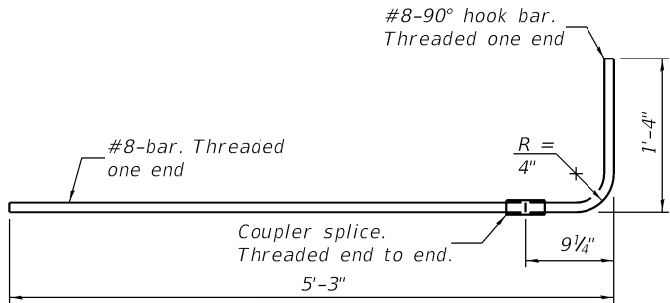
BAR G1(E)



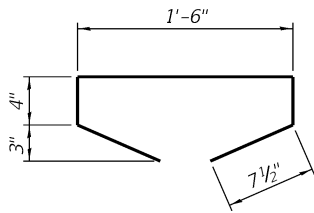
BAR G2(E)



BAR G4(E)



G6(E) BAR ASSEMBLY



BAR G5(E)

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	1,077

PI-4-54D

2-25-2019

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
CHECKED -
DATE -

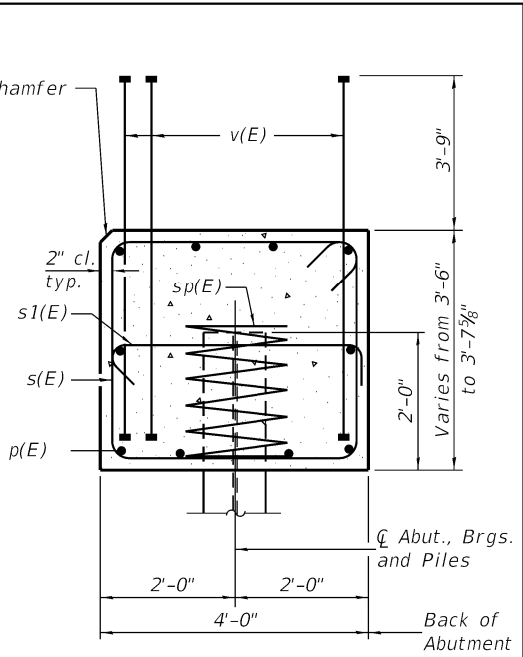
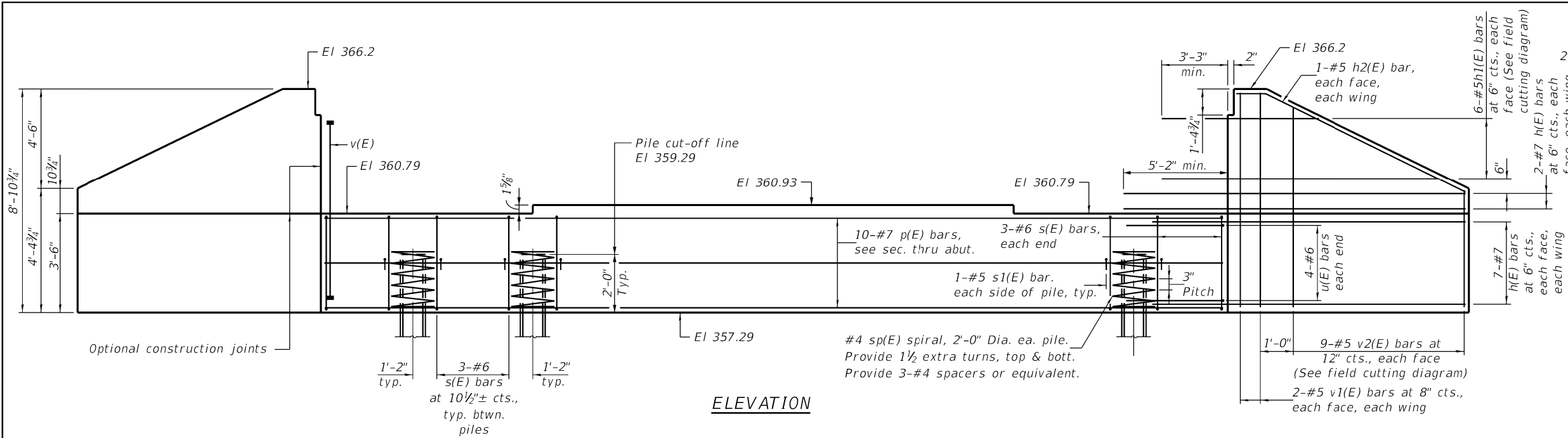
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

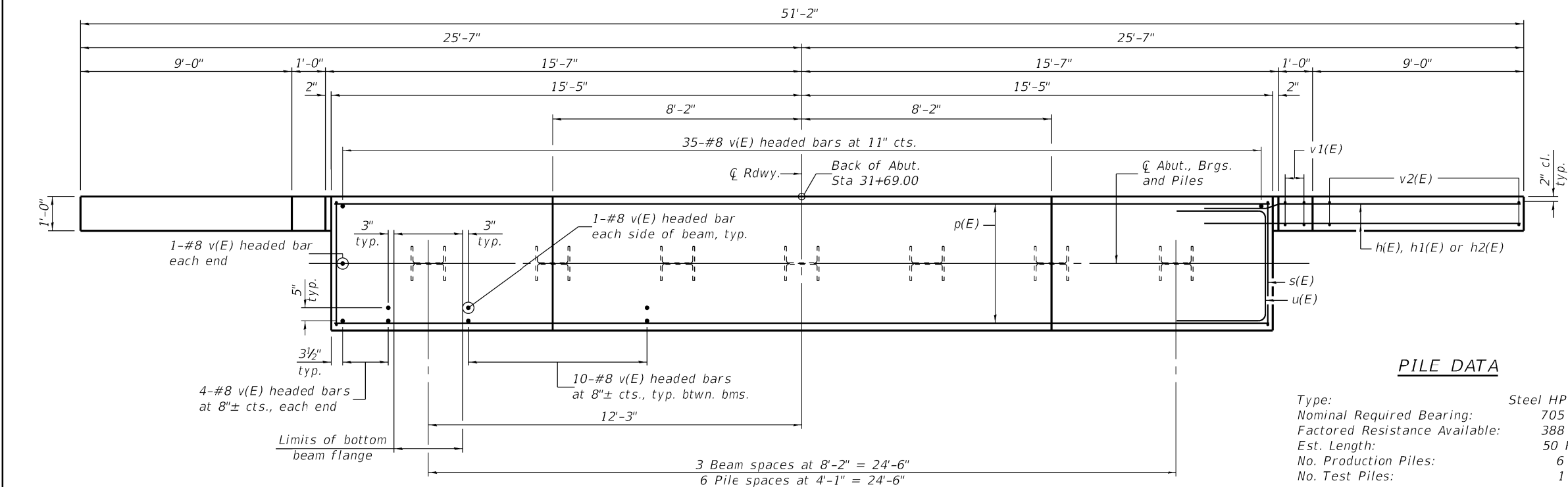
54" PPC I-BEAM DETAILS
STRUCTURE NO. 077-3145

SCALE: SHEET 22 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	37
CONTRACT NO. 99678			ILLINOIS FED. AID PROJECT	

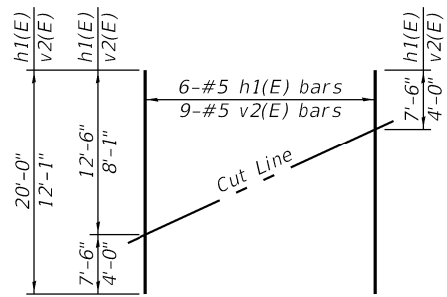


SEC. THRU ABUT.



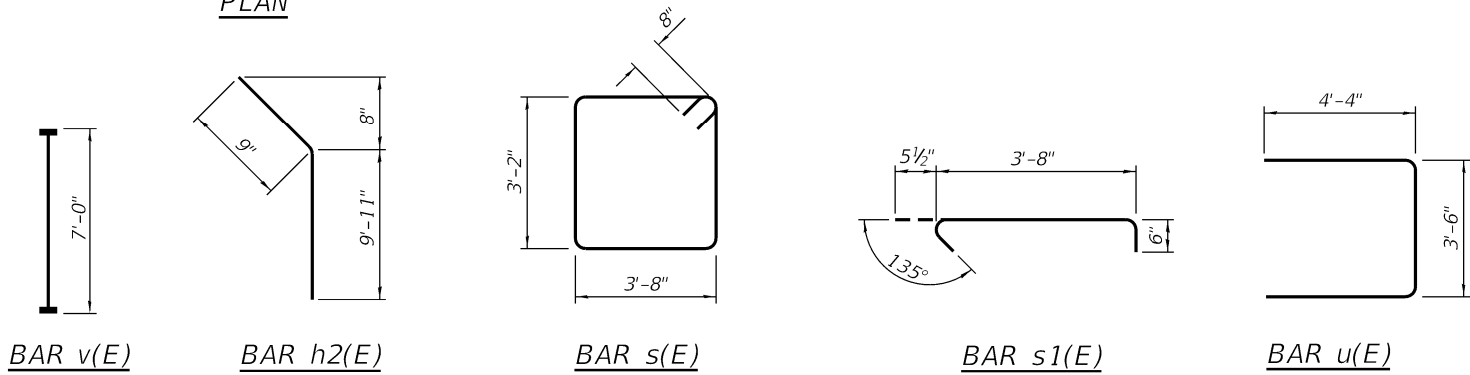
PILE DATA

Type:	Steel HP 14x89
Nominal Required Bearing:	705 K
Factored Resistance Available:	388 K
Est. Length:	50 Ft
No. Production Piles:	6
No. Test Piles:	1



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#7	15'-2"	—
h1(E)	12	#5	20'-0"	—
h2(E)	4	#5	10'-8"	—
p(E)	10	#7	30'-6"	—
s(E)	24	#6	15'-0"	—
s1(E)	14	#5	4'-8"	—
sp(E)	7	#4	2'-0"	—
u(E)	8	#6	12'-2"	—
v(E)	83	#8	7'-0"	—
v1(E)	8	#5	8'-6"	—
v2(E)	18	#5	12'-1"	—
Structure Excavation				Cu Yd 81
Concrete Structures				Cu Yd 36.8
Reinforcement Bars, Epoxy Coated				Pound 5,000
Furnishing Steel Piles, HP 14x89				Foot 300
Driving Piles				Foot 300
Test Pile Steel, HP 14x89				Each 1
Pile Shoe				Each 7

* Length is height of spiral.

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 27 of 32.

MODEL: Default
FILE: 10/07/23_PulaskiCo_CH2023-PSE_UpdatesCAD_Sheet10772000_38_wabst_23_7073.dgn

AI-CBS-0

6-15-2019 (Modified)

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann
DESIGNED -
DRAWN -
CHECKED -
DATE -

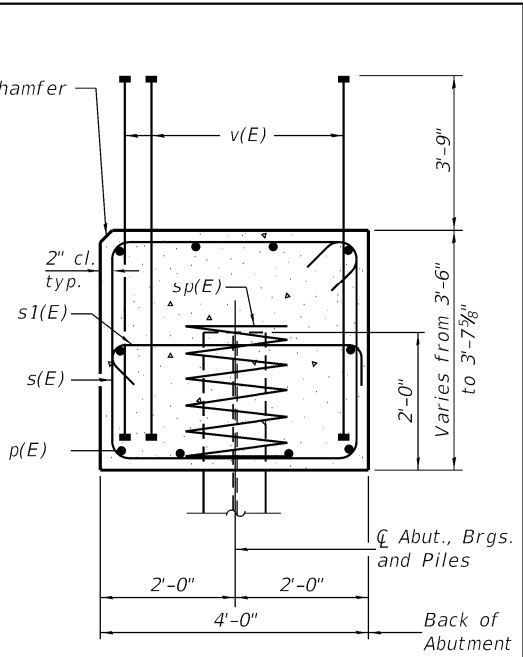
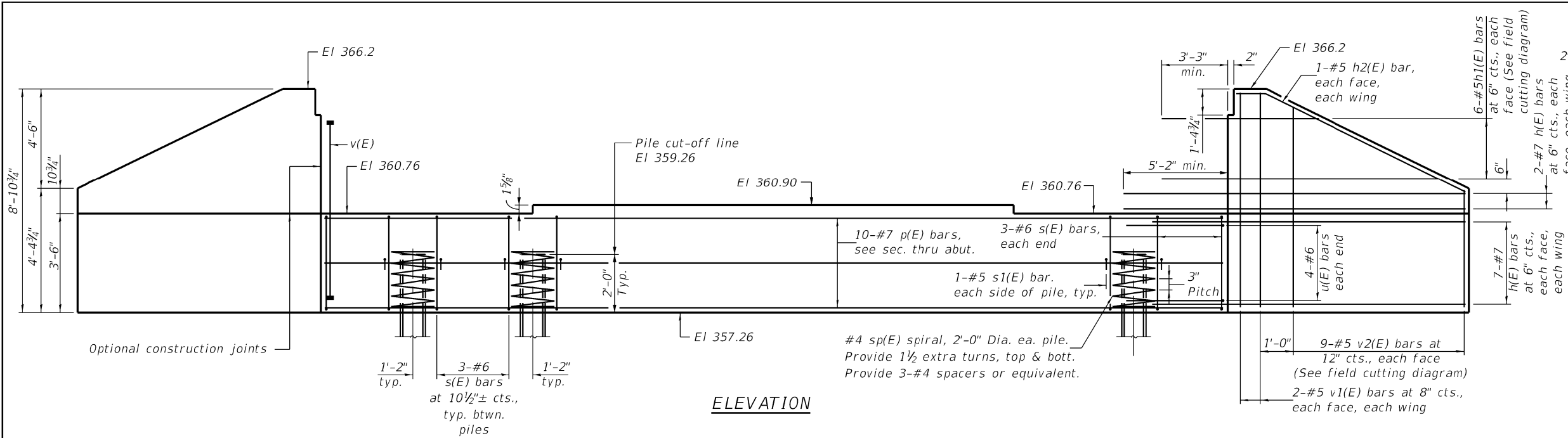
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

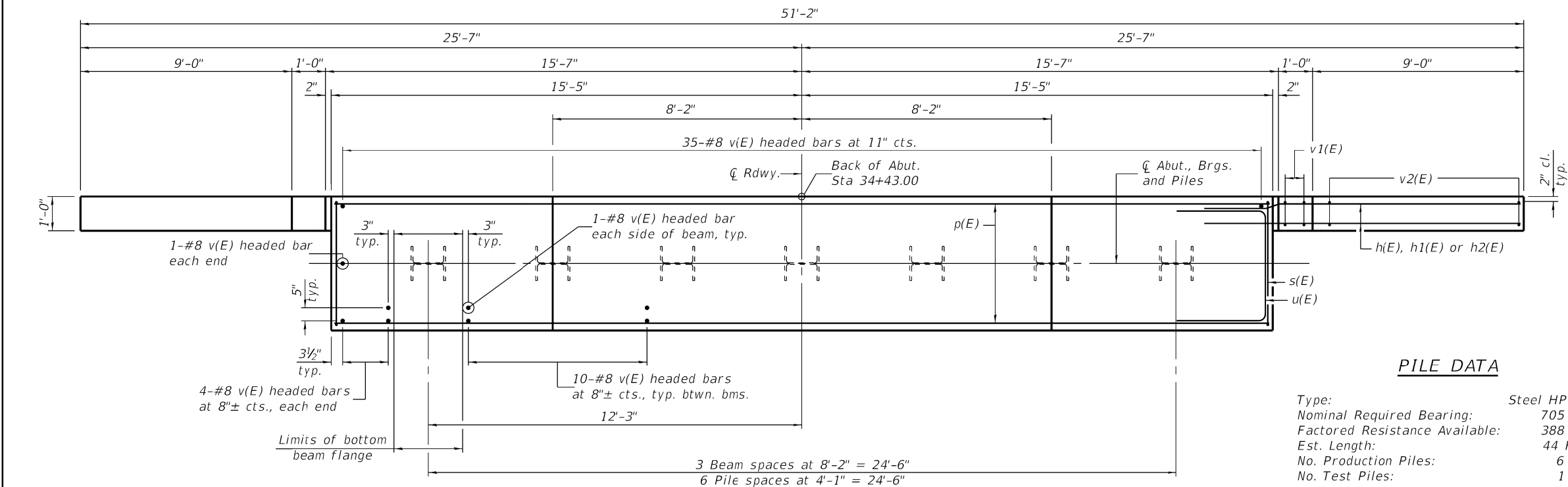
WEST ABUTMENT
STRUCTURE NO. 077-3145

SCALE: SHEET 23 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	38
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



SEC. THRU ABUT.



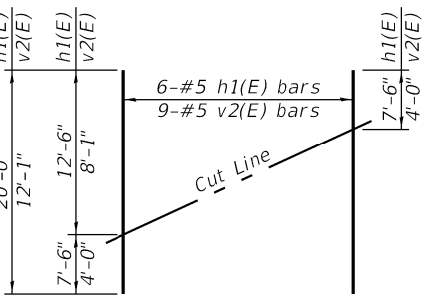
PILE DATA

Type:	Steel HP 14x89
Nominal Required Bearing:	705 K
Factored Resistance Available:	388 K
Est. Length:	44 Ft
No. Production Piles:	6
No. Test Piles:	1

BILL OF MATERIAL

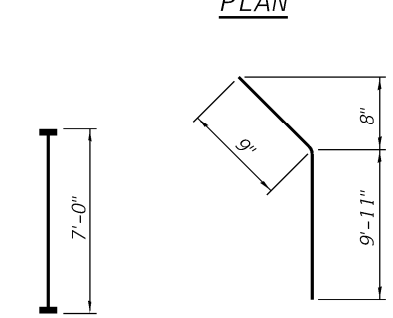
Bar	No.	Size	Length	Shape
h(E)	36	#7	15'-2"	▬
h1(E)	12	#5	20'-0"	▬
h2(E)	4	#5	10'-8"	▬
p(E)	10	#7	30'-6"	▬
s(E)	24	#6	15'-0"	┐
s1(E)	14	#5	4'-8"	┐
* sp(E)	7	#4	2'-0"	≡
u(E)	8	#6	12'-2"	┌
v(E)	83	#8	7'-0"	▬
v1(E)	8	#5	8'-6"	▬
v2(E)	18	#5	12'-1"	▬
Structure Excavation				Cu Yd 81
Concrete Structures				Cu Yd 36.8
Reinforcement Bars, Epoxy Coated				Pound 5,000
Furnishing Steel Piles, HP 14x89				Foot 264
Driving Piles				Foot 264
Test Pile Steel, HP 14x89				Each 1
Pile Shoe				Each 7

* Length is height of spiral.

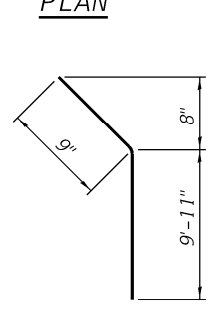


FIELD CUTTING DIAGRAM

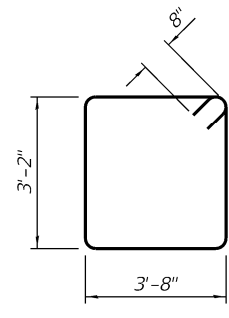
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



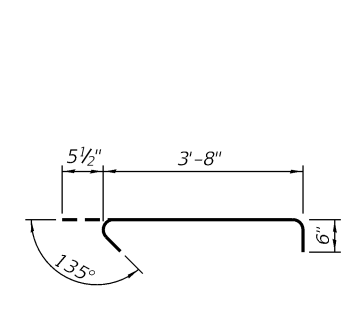
BAR v(E)



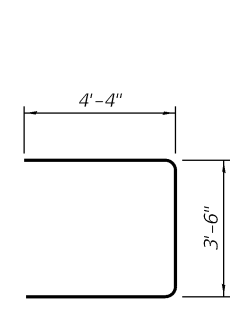
BAR h2(E)



BAR s(E)



BAR s1(E)



BAR u(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 27 of 32.

MODEL: Default
FILE: M073_PulaskiCo_CH2023-PSE_UpdatesCAD_Sheet(0772000_39_eabrt_24_7073.dgn)

AI-CBS-0

6-15-2019 (Modified)

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

IL PROF. DESIGN FIRM NO. 184.000899

USER NAME	= bchristmann
PLOT SCALE	= 2.0000 " / in.
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

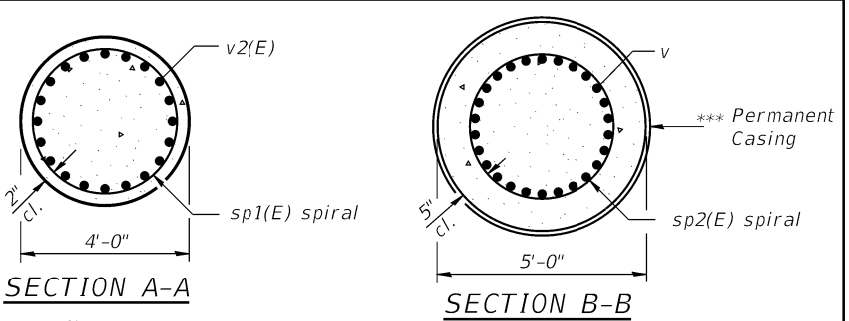
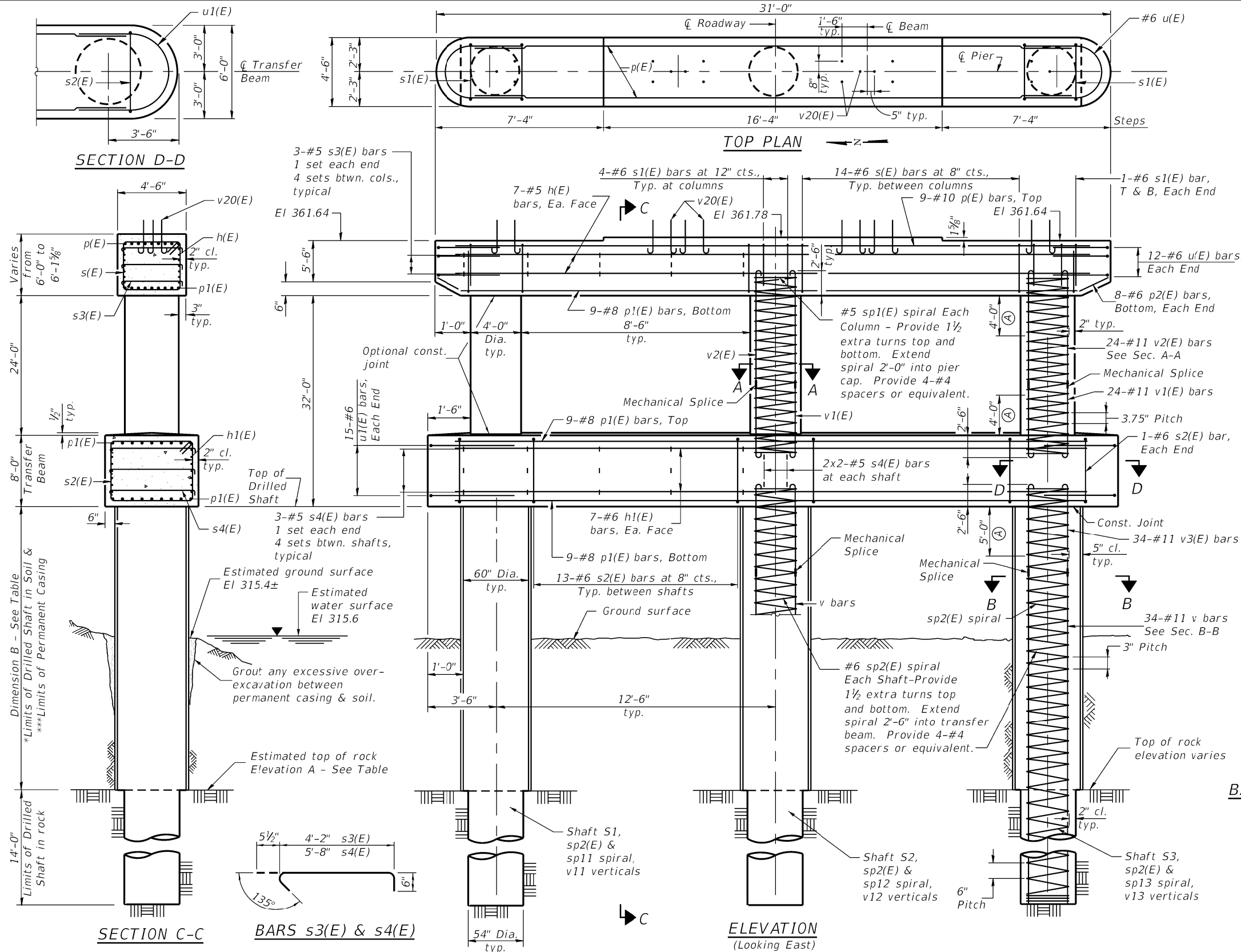
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 077-3145

SCALE: SHEET 24 OF 32 SHEETS STA. TO STA.

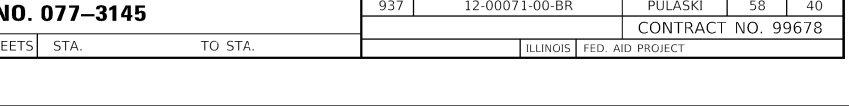
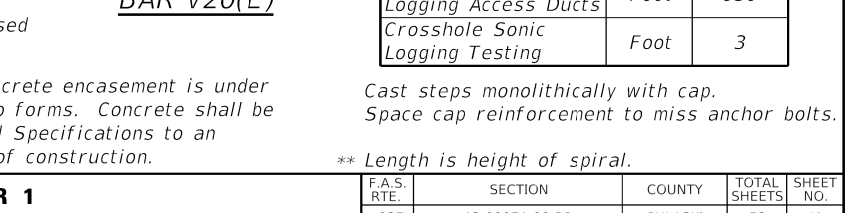
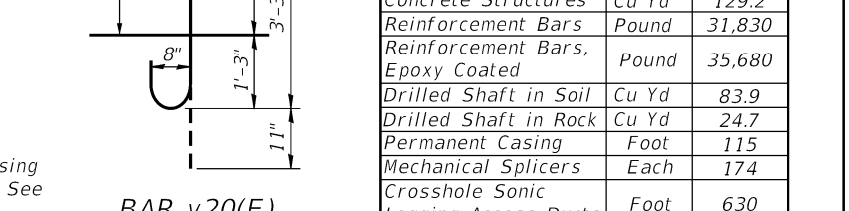
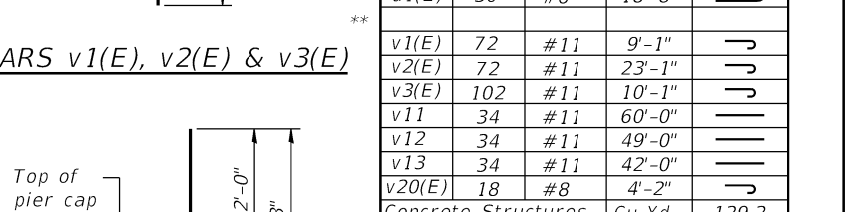
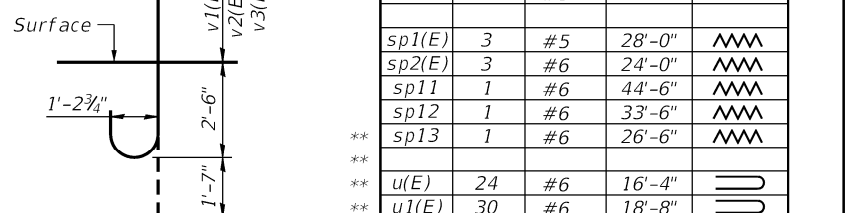
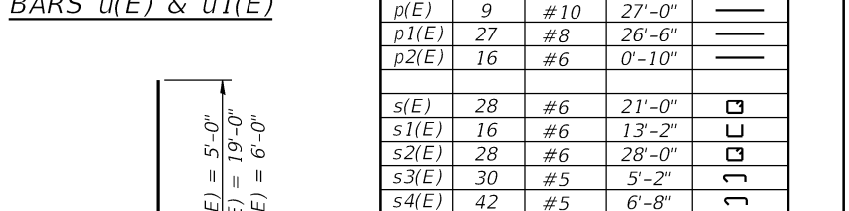
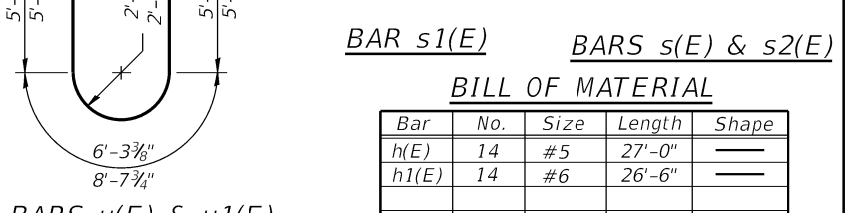
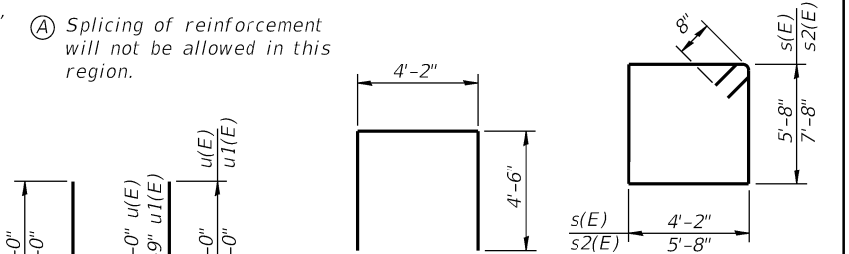
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	39
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



SECTION A-A

SECTION B-B

*** Permanent Casing



SECTION D-D

TOP PLAN

SECTION A-A

SECTION B-B

SECTION C-C

ELEVATION
(Looking East)

SHAFT TABLE

Table	Description	S1	S2	S3
A	Estimated Top of Rock Elevation	275.5±	286.5±	293.5±
B	Limits of Drilled Shaft in Soil & Permanent Casing	48'-2"	37'-2"	30'-2"

P-DSTB 2-17-2017 (Modified)

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

DESIGNED -
DRAWN -
CHECKED -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 077-3145

SCALE: SHEET 25 OF 32 SHEETS STA. TO STA.

*** Length is height of spiral.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	40
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.

*** Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications.
Pay limits for the Permanent Casing shall be based on the minimum length shown.
If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

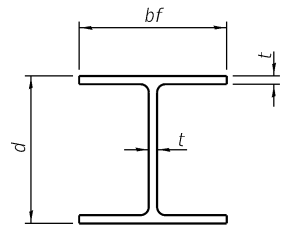
BARS s3(E) & s4(E)

BARS v1(E), v2(E) & v3(E)

BAR v20(E)

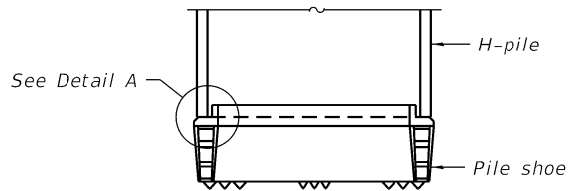
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	27'-0"	—
h1(E)	14	#6	26'-6"	—
p(E)	9	#10	27'-0"	—
p1(E)	27	#8	26'-6"	—
p2(E)	16	#6	0'-10"	—
s(E)	28	#6	21'-0"	□
s1(E)	16	#6	13'-2"	□
s2(E)	28	#6	28'-0"	□
s3(E)	30	#5	5'-2"	□
s4(E)	42	#5	6'-8"	□
sp1(E)	3	#5	28'-0"	⋈
sp2(E)	3	#6	24'-0"	⋈
sp11	1	#6	44'-6"	⋈
sp12	1	#6	33'-6"	⋈
sp13	1	#6	26'-6"	⋈
u(E)	24	#6	16'-4"	U
u1(E)	30	#6	18'-8"	U
v1(E)	72	#11	9'-1"	J
v2(E)	72	#11	23'-1"	J
v3(E)	102	#11	10'-1"	J
v11	34	#11	60'-0"	J
v12	34	#11	49'-0"	J
v13	34	#11	42'-0"	J
v20(E)	18	#8	4'-2"	J
Concrete Structures	Cu Yd	129.2		
Reinforcement Bars	Pound	31,830		
Reinforcement Bars, Epoxy Coated	Pound	35,680		
Drilled Shaft in Soil	Cu Yd	83.9		
Drilled Shaft in Rock	Cu Yd	24.7		
Permanent Casing	Foot	115		
Mechanical Splicers	Each	174		
Crosshole Sonic Logging Access Ducts	Foot	630		
Crosshole Sonic Logging Testing	Foot	3		

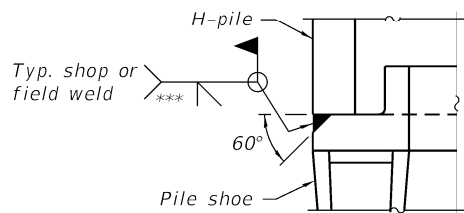


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



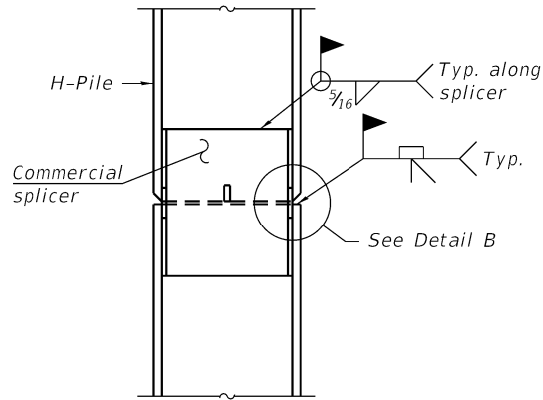
ELEVATION



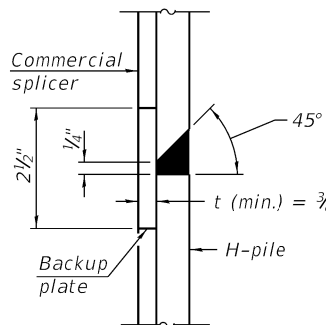
DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.

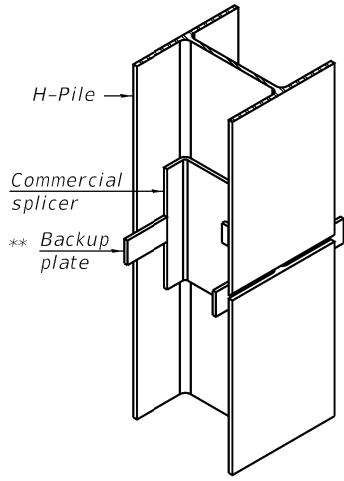


ELEVATION

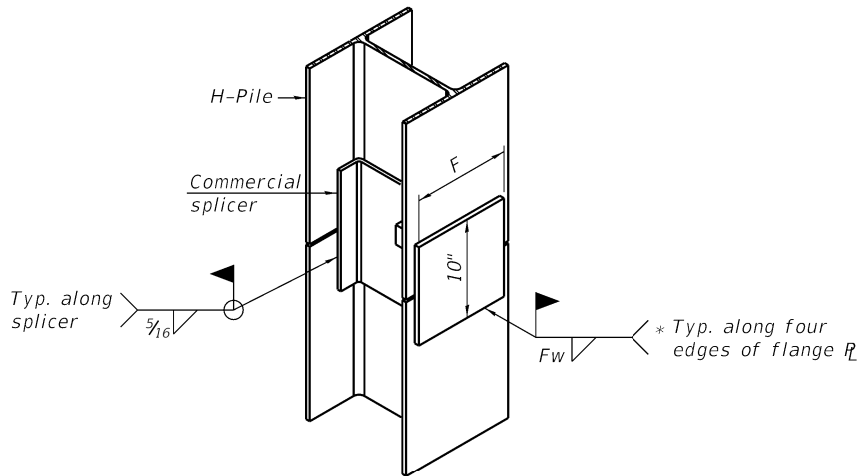


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



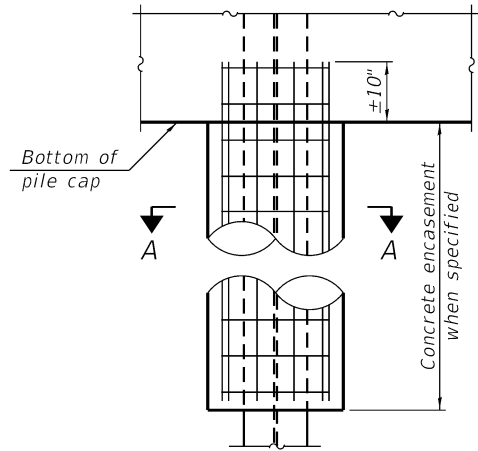
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

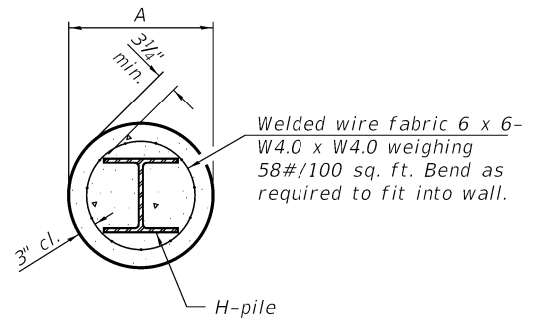
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

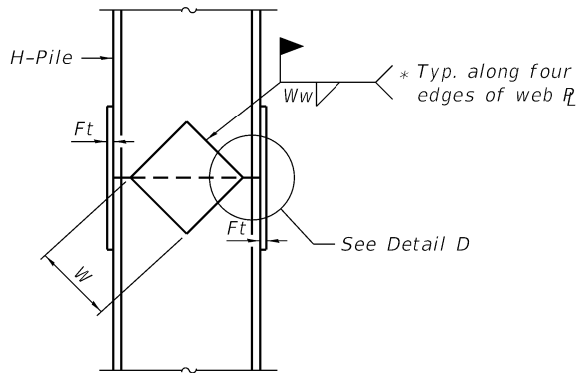


ELEVATION

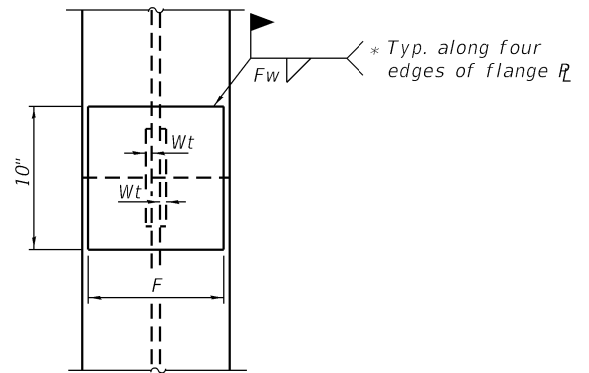


SECTION A-A

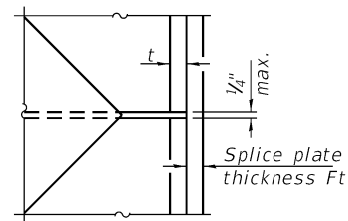
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(Forms for encasement may be omitted when
soil conditions permit).



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP

8-11-2017

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENG

USER NAME = bchristmann
DESIGNED -
DRAWN -
PLOT SCALE = 2.0000 ' / in.
CHECKED -
PLOT DATE = 10/7/2025
DATE -

DESIGNED -
DRAWN -
CHECKED -
DATE -

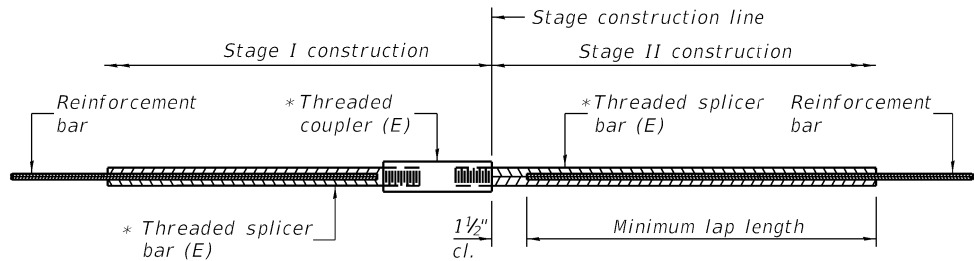
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 077-3145

SCALE: SHEET 27 OF 32 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	42
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

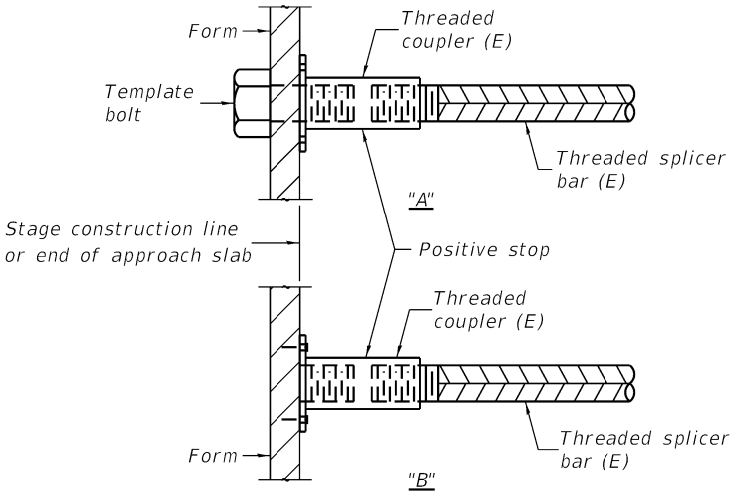


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

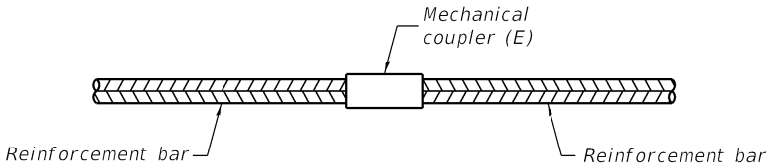
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length



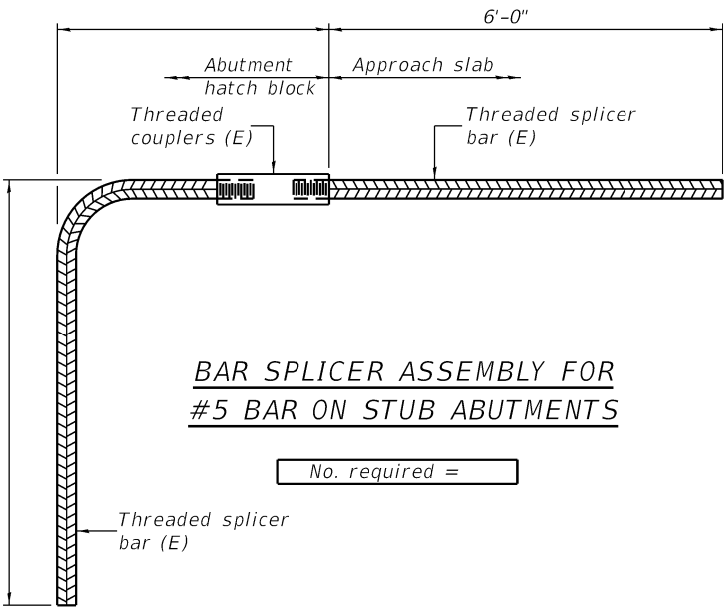
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 1	#11	174
Pier 2	#11	174



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL Default
FILE Name: IL073_PulaskiCo_CH2025-PSE_UpdatesCAD_Sheet00772009_43_splcr_28_7073.dgn

BSD-1

2-17-2017

<div>HMG</div> <div>ENGINEERS</div> <div>IL PROF. DESIGN FIRM NO. 184.000899</div>	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 888.HMG.ENGR	USER NAME = lbchristmarn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 077-3145				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -	937						12-00071-00-BR	PULASKI	58	43	
	PLOT DATE = 10/7/2025	CHECKED -	REVISED -	CONTRACT NO. 99678										
		DATE -	REVISED -	ILLINOIS FED. AID PROJECT										
				SCALE:		SHEET 28 OF 32 SHEETS	STA.	TO STA.						

HOLCOMB FOUNDATION ENGINEERING INC. 393 Wood Road 618-529-5262 Carbondale, Il. 62901 618-457-8991 fax										Page 1 of 2			
Bridge Foundation Boring Log													
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>				Date: <u>6/4/2019</u>							
Section: <u>12-00071-00-BR</u>		Station: _____				Bored by: <u>J. Carter</u>							
Structure: _____		Checked By: <u>T. Holcomb</u>											
County: <u>Pulaski</u>													
Boring No: <u>1</u> Station: <u>31+64.17</u> Offset: _____		Elevation N Qu tsf w %				Surface Water Elev. _____ Ground Water Elev. _____ During Drilling <u>Dry</u> Upon Completion <u>353.85</u>				Elevation N Qu tsf w %			
Ground Surface <u>363.85</u> 18" Asphalt		<u>0</u>				silty clay (continued)				<u>340.35</u>			
Brown Mottled Gray Silty CLAY (A-6)		<u>9</u> <u>3.0B</u> <u>23</u>				Brown Mottled Gray Silty SAND (A-2-4)				<u>-25</u> <u>11</u> <u>1.4B</u> <u>17</u>			
<u>-5</u> <u>5</u> <u>3.8B</u> <u>17</u>						<u>15</u> <u>1.1S</u> <u>18</u>							
<u>3</u> <u>0.9D</u> <u>26</u>						<u>-30</u> <u>31</u> <u>--</u> <u>23</u>							
<u>355.35</u>													
Gray Mottled Brown Silty CLAY (A-6)		<u>-10</u> <u>7</u> <u>2.3S</u> <u>26</u>											
<u>352.85</u>						<u>330.35</u>							
Brown Mottled Gray Silty CLAY (A-6)		<u>10</u> <u>2.0S</u> <u>26</u>				Gray Silty CLAY to Sandy CLAY (A-6)				<u>-35</u> <u>8</u> <u>1.2B</u> <u>22</u>			
<u>-15</u> <u>8</u> <u>1.9S</u> <u>26</u>													
<u>8</u> <u>2.9B</u> <u>20</u>						<u>324.35</u>				<u>-40</u> <u>33</u> <u>--</u> <u>17</u>			
<u>345.35</u>						Brown Mottled Gray SAND (A-2-4)							
Brown Silty CLAY (A-6)		<u>-20</u> <u>8</u> <u>1.6B</u> <u>20</u>											
						<u>320.35</u>							
		<u>10</u> <u>1.3S</u> <u>18</u>				Gray LIMESTONE with Gray Sandy CLAY (A-6)				<u>100</u> <u>72"</u> <u>--</u> <u>11</u>			
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30" Qu=Unconfined Compressive Strength in tons/sq.ft. w=Water Content=percentage of oven dry weight-% B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer													

HOLCOMB FOUNDATION ENGINEERING INC.									
393 Wood Road			618-529-5262						
Carbondale, Il. 62901			618-457-8991 fax			Page 2 of 2			
Bridge Foundation Boring Log									
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>				Date: <u>6/4/199</u>			
Section: <u>12-00071-00-BR</u>		Station: _____				Bored by: <u>J. Carter</u>			
Structure: _____		_____				Checked By: <u>T. Holcomb</u>			
County: <u>Pulaski</u>		_____				_____			
Boring No: <u>1</u>		Elevation		Z		Qu		tsf	
Station: <u>31+64.17</u>		N		w		%		w	
Offset: _____		Qu		w		%		w	
		Surface Water Elev. _____		Ground Water Elev. _____		During Drilling <u>Dry</u>		Upon Completion <u>353.85</u>	
		Elevation		Z		Qu		tsf	
		N		w		%		w	
		Qu		w		%		w	
limestone with sandy clay (continued)		45							
		315.35							
Brown Silty CLAY to Sandy CLAY (A-6)		-50		27		1.85		28	
		313.35							
Gray LIMESTONE									
Recovery = 95%									
RQD = 82%									
		-55							
		308.35							
End of Boring @ -55.5'									
		-60							
		-65							
		-70							
		-75							
		-80							
		-85							
		-90							
		-95							
		-100							
		-105							
		-110							
		-115							
		-120							
		-125							
		-130							
		-135							
		-140							
		-145							
		-150							
		-155							
		-160							
		-165							
		-170							
		-175							
		-180							
		-185							
		-190							
		-195							
		-200							
		-205							
		-210							
		-215							
		-220							
		-225							
		-230							
		-235							
		-240							
		-245							
		-250							
		-255							
		-260							
		-265							
		-270							
		-275							
		-280							
		-285							
		-290							
		-295							
		-300							
		-305							
		-310							

HOLCOMB FOUNDATION ENGINEERING INC.											
393 Wood Road Carbondale, IL 62901				618-529-5262 618-457-8991 fax				Page 1 of 2			
Bridge Foundation Boring Log											
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>				Date: <u>6/3/2019</u>					
Section: <u>12-00071-00-BR</u>		Station: _____				Bored by: <u>J. Carter</u>					
Structure: _____						Checked By: <u>T. Holcomb</u>					
County: <u>Pulaski</u>											
Boring No.: <u>2</u>		Elevation		Z		Qu tsf		w %		Surface Water Elev. _____	
Station: <u>31+64.17</u>										Ground Water Elev. <u>325.30</u>	
Offset: _____										During Drilling <u>Plugged @ 360.80</u>	
										Upon Completion <u>360.80</u>	
Ground Surface		363.80		0						silty clay (continued)	
16" Asphalt										340.30	
Brown CLAY (A-6)		4		--		24				Brown Mottled Gray CLAY with organics (A-6) -25	
										337.80	
		6		--		-				Brown Mottled Gray SAND (A-2-4) 19 1.9S 16	
		-5									
		5		--		-				19 1.1S 21	
		-30									
355.30											
Brown Mottled Gray CLAY (A-6)		-10		6		0.8S		23		330.30	
										Gray SAND (A-2-4) -35	
				6		0.7S		26		25 1.5S 17	
		-15		9		1.4S		26		325.30	
										Gray Mottled Brown SAND (A-2-4) -40	
				9		2.0S		22		22 0.7S 16	
345.30											
Brown Silty CLAY (A-6)		-20		8		1.9S		23		320.30	
										Gray Sandy CLAY (A-6) -24	
				9		2.1S		21		24 1.1S 17	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC. 393 Wood Road 618-529-5262 Carbondale, Il. 62901 618-457-8991 fax									
Bridge Foundation Boring Log									
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>				Date: <u>6/3/2019</u>			
Section: <u>12-00071-00-BR</u>		Station: _____				Bored by: <u>J. Carter</u>			
Structure: _____		_____				Checked By: <u>T. Holcomb</u>			
County: <u>Pulaski</u>		_____				_____			
Boring No: <u>2</u> Station: <u>31+64.17</u> Offset: _____		Elevation N	Qu tsf	w %	Surface Water Elev. _____ Ground Water Elev. <u>326.30</u> During Drilling <u>Plugged @</u> Upon Completion <u>360.80</u>		Elevation N	Qu tsf	w %
sandy clay (continued)		45					70		
315.30									
Brown Sandy CLAY (A-6)		50	22	2.45	29				
308.30									
Gray LIMESTONE		307.80	100	71	--	8			
End of Boring @ -56.0'									
60									
65									

N = Standard Penetration Test
 B = Blows per foot to drive 2" O.D.
 Split Spoon Sampler 12" with
 a 140 lbs. hammer falling 30"

Qu=Unconfined Compressive
 Strength in tons/sq.ft.
 w=Water Content-percentage
 of oven dry weight-%

B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

[illegible]

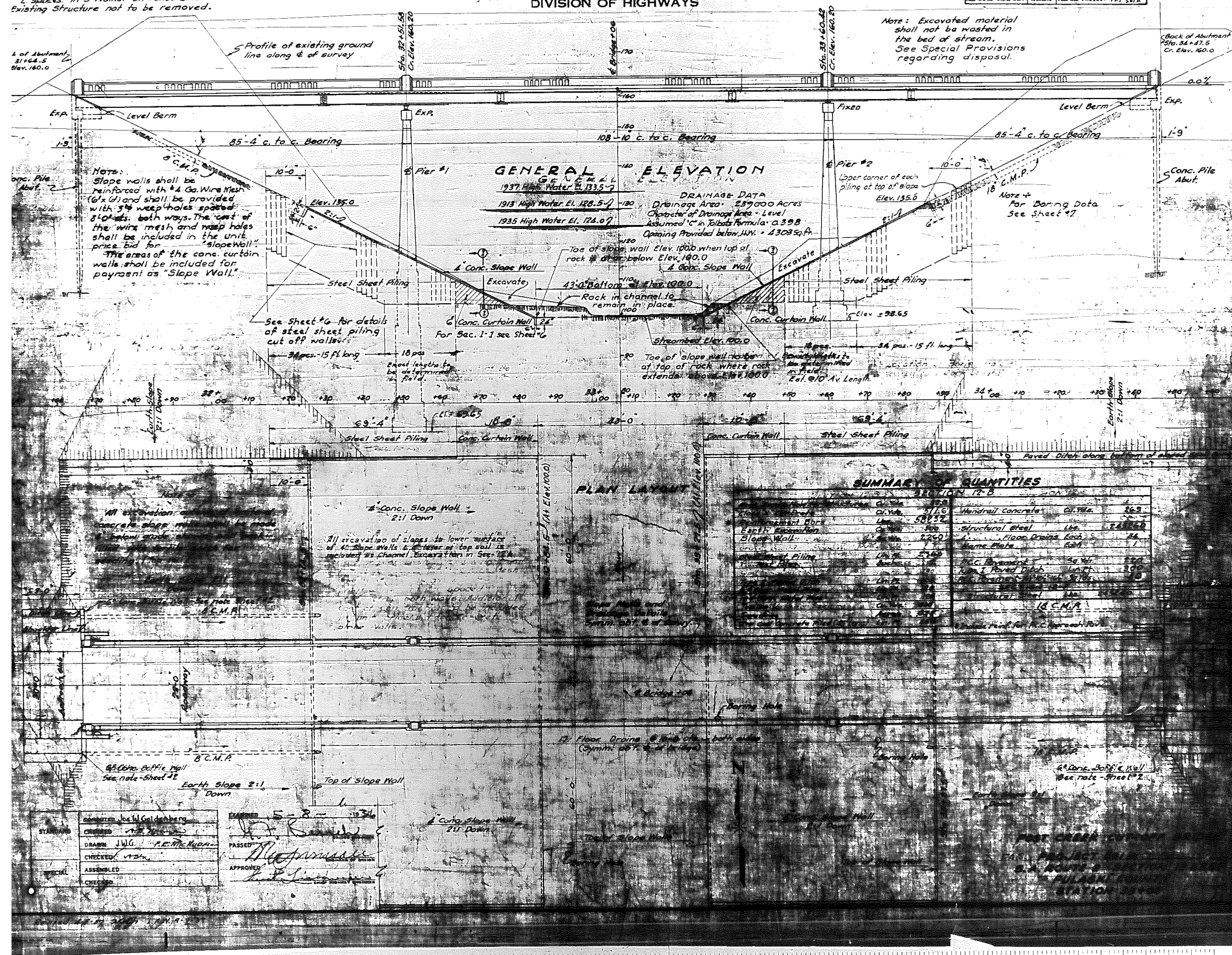
HOLCOMB FOUNDATION ENGINEERING INC. 393 Wood Road 618-529-5262 Carbondale, Il. 62901 618-457-8991 fax													
Page 2 of 2													
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> Bridge Foundation Boring Log </div>													
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>				Date: <u>6/4/2019</u>							
Section: <u>12-00071-00-BR</u>		Station: _____				Bored by: <u>J. Carter</u>							
Structure: _____		_____				Checked by: <u>T. Holcomb</u>							
County: <u>Pulaski</u>		_____				_____							
Boring No: <u>3</u> Station: <u>34+46.83</u> Offset: _____	Elevation	N	Qu	tsf	w	%	Surface Water Elev. _____ Ground Water Elev. _____ During Drilling <u>306.66</u> Upon Completion <u>343.66</u>	Elevation	N	Qu	tsf	w	%
weathered limestone (continued)	45							-70					
315.16													
Gray Sandy CLAY with limestone (A-6)	-50	21	0.45	25				-75					
	-55												
	-55				19	--	19						
	-55												
306.16								-80					
Gray LIMESTONE	-60				100	71	--	6					
Recovery = 79%	-60												
RQD = 77%	-60												
	-60												
300.66								-85					
End of Boring @ -63.0'	-65												
	-65												
	-65												

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"	Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%	B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer
---	--	---

HOLCOMB FOUNDATION ENGINEERING INC. 393 Wood Road 618-529-5262 Carbondale, IL. 62901 618-457-8991 fax											
Page 1 of 2											
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> Bridge Foundation Boring Log </div>											
Project: <u>H-19049</u>		Bridge <u>Post Creek Cut Off Bridge</u>					Date: <u>6/4/2019</u>				
Section: <u>12-00071-00-BR</u>		Station _____					Bored by: <u>J. Carter</u>				
Structure: _____							Checked By: <u>T. Holcomb</u>				
County: <u>Pulaski</u>											
Boring No: <u>4</u> Station: <u>34+46.83</u> Offset: _____		Elevation Z		Qu tsf W %		Surface Water Elev. _____ Ground Water Elev. _____ During Drilling _____ Upon Completion <u>360.68</u>		Elevation Z		Qu tsf W %	
Ground Surface		363.68		0		sandy clay (continued)					
18" Asphalt											
Brown CLAY with sand (A-6)		6		1.4S		20		-25		14 3.4S 19	
								337.68			

[illegible]

SHEET NO. 5
7 SHEETS



MODEL: Default
FILE NAME: H:\073 Pulaski\Co CH2\2025-PSE Updates\CAD Sheets\0773000 48-53 ExistingPlans 7073.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME	= bchristman
PLOT SCALE	= 2.0000 ' / in
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**SN 077-3000 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY**

SCALE:	SHEET 1 OF 6 SHEETS	STA. _____ TO STA. _____
--------	---------------------	--------------------------

[illegible]

MODEL: Default
FILE: 10773_PulaskiCo_CAD-2025-PSE-UpdatesCAD-Sheets(0772009_48-53_ExistingPlans_7072.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENG

USER NAME = bchristmann
PLOT SCALE = 2.0000" / 1.
PLOT DATE = 10/7/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

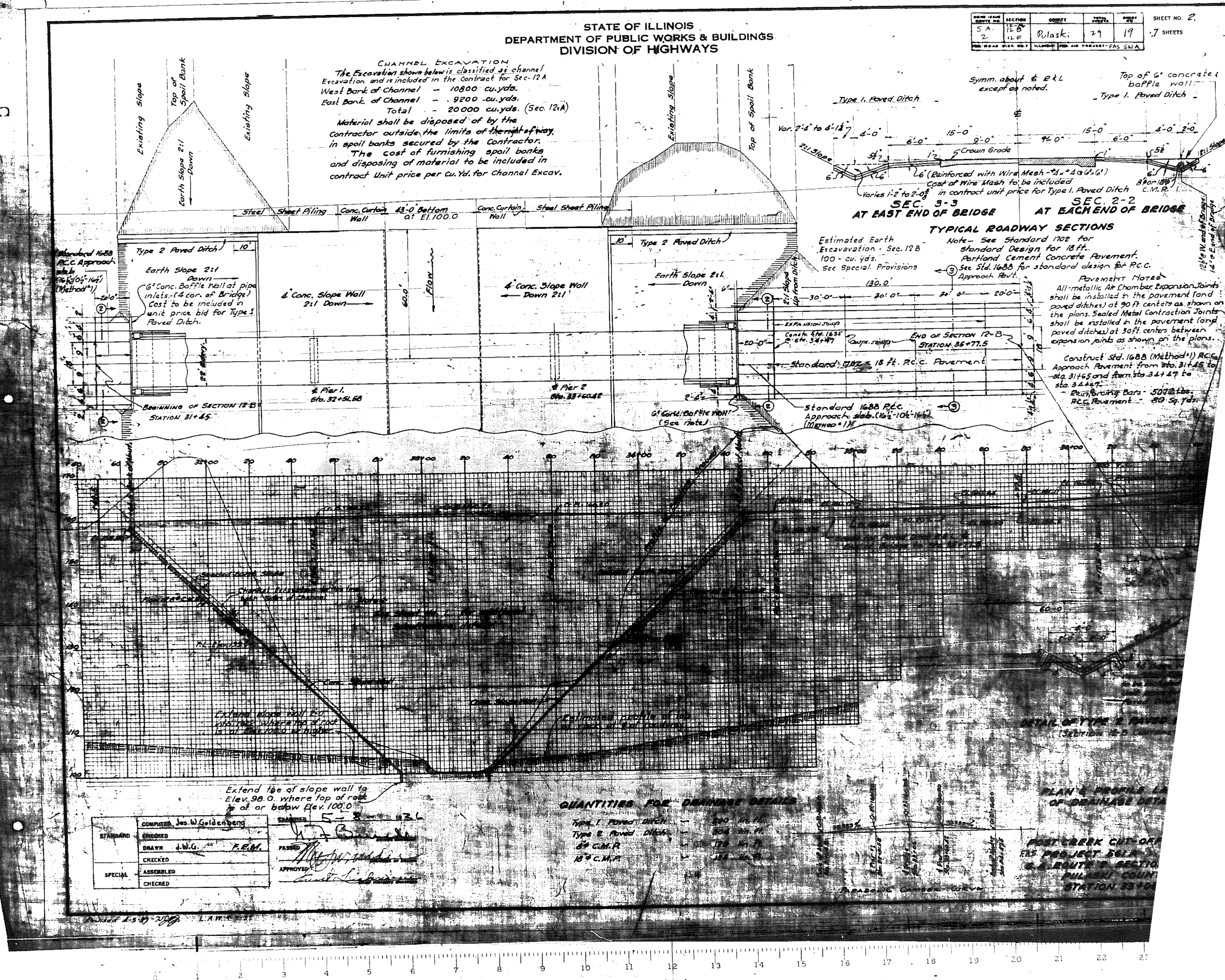
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 077-3000 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

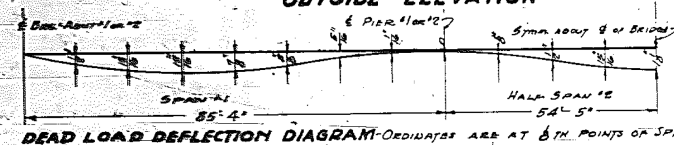
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	49
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



SHEET NO. 3
7 SHEETS

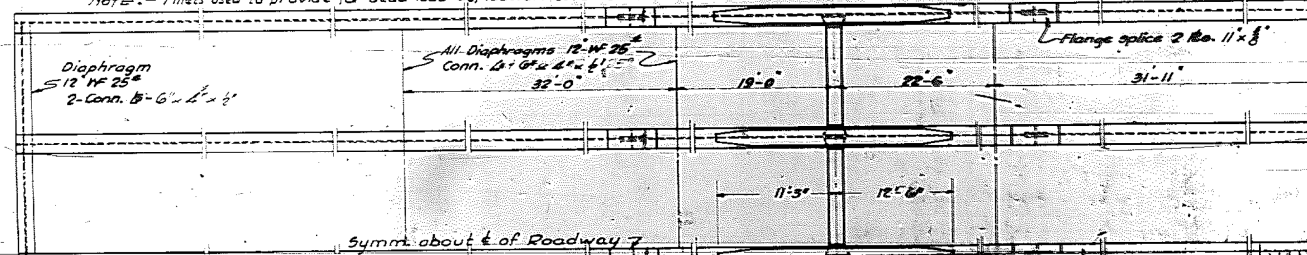
[illegible]

OUTSIDE ELEVATION



DEAD LOAD DEFLECTION DIAGRAM-ORDINATES ARE AT 8TH POINTS OF SPAN

DIAGRAM SHOWING SLAB FILLET DEPTHS AT $\frac{1}{4}$ SPLICES, $\frac{1}{4}$ BAYS, AND $\frac{1}{4}$ BRIDGE



SECTION SHOWING

CONCRETE FILLETS.
Use to provide for dead load deflection and parabolic camber. See sheet #2 for camber diagram.

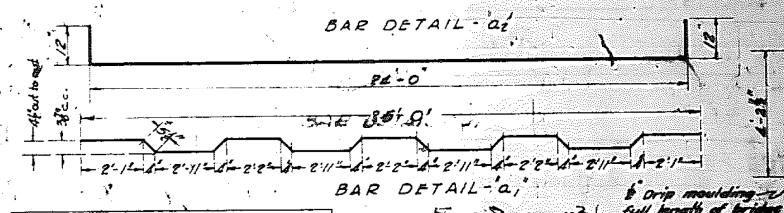
BAR	No.	SIZE	LENGTH
a	261	#8	28'-0"
b	261 -	#8	26'-0"
c ₁	261	#8	28'-0"
d	550	#8	29'-0"
e ₁	62	#8	24'-0"
f	406	#8	3'-0"
g	8	#8	8'-5"
e ₂	38	-	18'-8"
e ₃	16	-	10'-8"
e ₄	40	-	5'-3"
e ₅	20	#8	3'-0"
e ₆	12	"	30'-5"
X	88	#8	3'-3"
<u>Hondraill Concrete - Cyls.</u>			26'
<u>Class X Concrete - Cyls.</u>			18'
<u>Reinforcing Steel - lbs.</u>			3,250
<u>Structural Steel - lbs.</u>			2,750
<u>C.I. Floor Drains - Each</u>			26
<u>Nails Plate "North"</u>			1

GENERAL NOTES

[illegible]

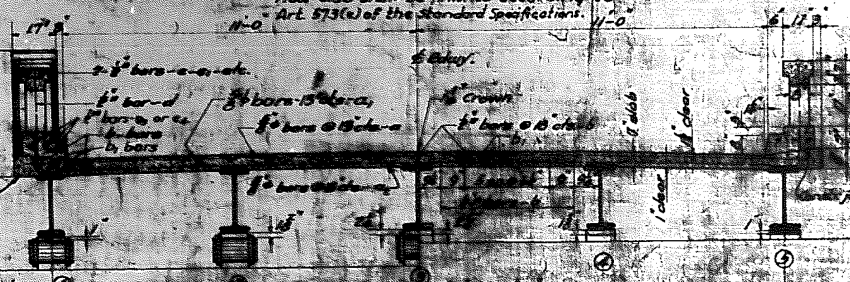
THE UNIVERSITY OF CHICAGO

MS PROJECT 201 A
S.A. ROUTE 2 SECTION 200
PULASKI COUNTY
STATION 25.00



HALF PLAN

NOTE:
Floor slab shall be finished according
- Art. 573(a) of the Standard Specifications.

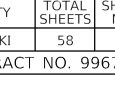


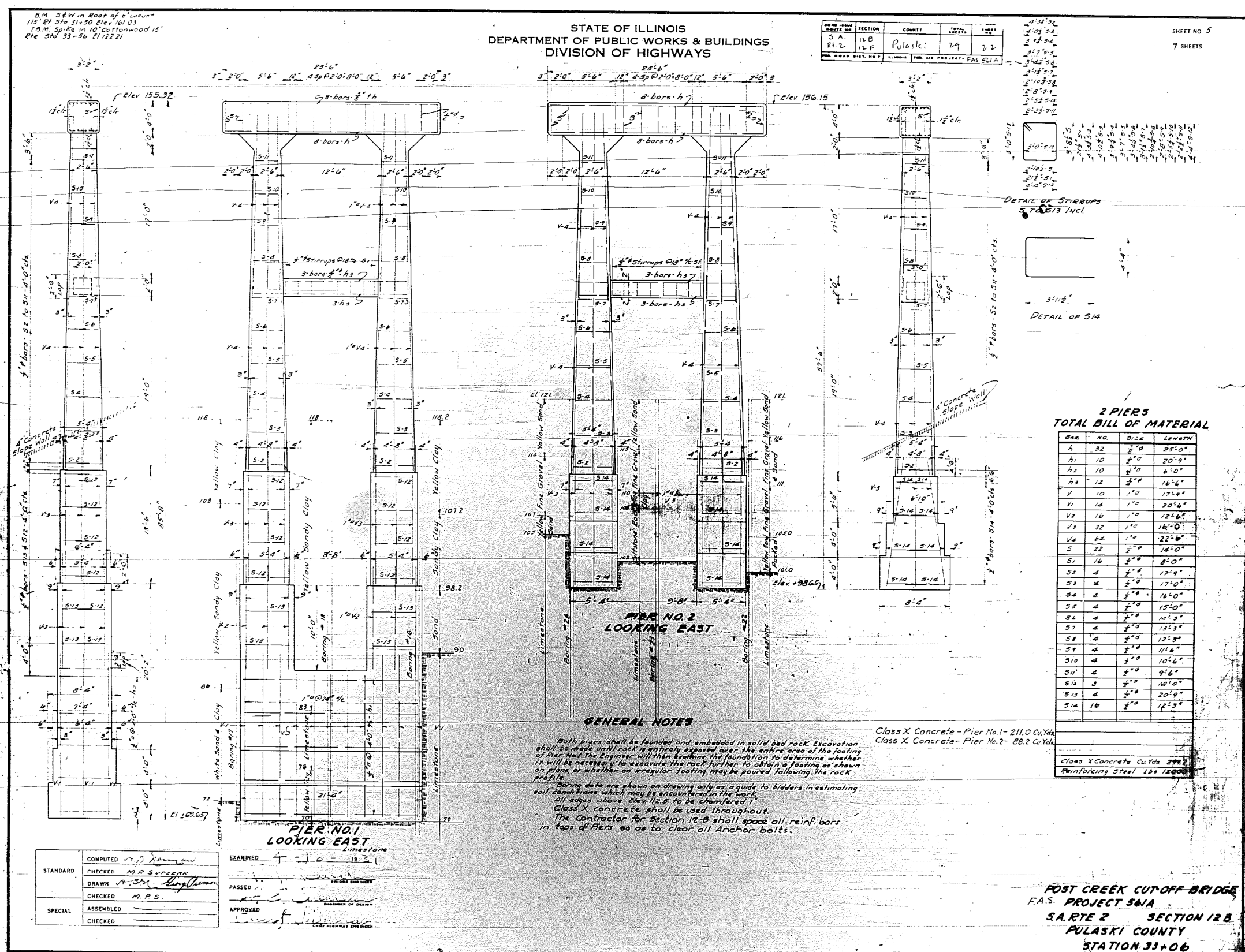
CROSS SECTION

STANDARD	COMPUTED	Jos. W. Goldenberg
	CHECKED	<i>W. J. Goldenberg</i>
	DRAWN	J.W.G. P.E.M.
SPECIAL	CHECKED	<i>W. J. Goldenberg</i>
	ASSEMBLED	
	CHECKED	

EXAMINED 5-8-123
PASSED
APPROVED

Revised 4-5-97 - *[Signature]* L.A.W. 9-9-97





2 PIERS TOTAL BILL OF MATERIAL			
BAR	NO.	SIZE	LENGTH
A	32	3/4"	25'-0"
H1	10	3/4"	20'-0"
H2	10	3/4"	6'-0"
H3	12	3/4"	16'-6"
V	10	1"	17'-6"
V1	14	1"	20'-6"
V2	14	1"	12'-6"
V3	32	1"	16'-0"
V4	64	1"	22'-6"
S	22	3/4"	16'-0"
S1	16	3/4"	8'-0"
S2	4	3/4"	17'-9"
S3	8	3/4"	17'-0"
S4	4	3/4"	16'-0"
S5	4	3/4"	15'-0"
S6	4	3/4"	14'-3"
S7	4	3/4"	13'-3"
S8	4	3/4"	12'-3"
S9	4	3/4"	11'-6"
S10	4	3/4"	10'-6"
S11	4	3/4"	9'-6"
S12	3	3/4"	18'-0"
S13	4	3/4"	20'-9"
S14	16	3/4"	12'-3"

GENERAL NOTES

Both piers shall be founded and embedded in solid bed rock. Excavation shall be made until rock is entirely exposed over the entire area of the footing of Pier No. 1. The Engineer will then examine the foundation to determine whether it will be necessary to excavate the rock further to obtain a footing as shown on plans or whether an irregular footing may be poured following the rock profile.

During data are shown on drawing only as a guide to bidders in estimating soil conditions which may be encountered in the work.

All edges above Elev 112.5 to be chamfered 1".

Class X concrete shall be used throughout.

The Contractor for Section 12-B shall space all reinf. bars in tops of Piers 60 as to clear all Anchor bolts.

Class X Concrete - Pier No. 1 - 211.0 Cu Yds.
Class X Concrete - Pier No. 2 - 88.2 Cu Yds.

Class X Concrete Cu Yds 299.2
Reinforcing Steel Lbs 12000

STANDARD	COMPUTED	EXAMINED
CHECKED	M.P.S. SUPERVISOR	
DRAWN	A. J. M. SUPERVISOR	
CHECKED	M.P.S.	
SPECIAL	ASSEMBLED	
	CHECKED	

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME	= bchristmann
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVIS	-
REVIS	-
REVIS	-
REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 077-3000 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	52
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE: 10073_Pulaski_CAD_Sheet10772000_48-53_ExistingPlans_7072.dgn
Pulaski Co. CHD 2025-PSE Updates CAD Sheet 10772000_48-53_ExistingPlans_7072.dgn

HMG
ENGINEERS

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENG

USER NAME = bchristmann
DESIGNED -
DRAWN -
CHECKED -
DATE -
PLOT SCALE = 2.0000" / 1.
PLOT DATE = 10/7/2025

STANDARD	COMPUTED	EXAMINED
	CHECKED Jos W. Goldenberg	
	DRAWN W. G. R. Michuda	
	CHECKED J. W. G. R. Michuda	
SPECIAL	ASSEMBLED	APPROVED
	CHECKED	

EXAMINED	10-3-1930
PASSED	
APPROVED	
CHIEF HIGHWAY ENGINEER	

Revised 4-5-37 - M. L. W. 9-9-37.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 077-3000 EXISTING STRUCTURE PLANS
FOR INFORMATION ONLY

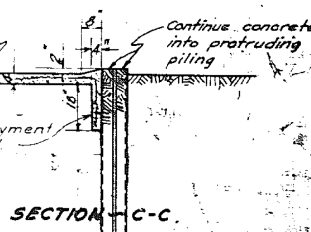
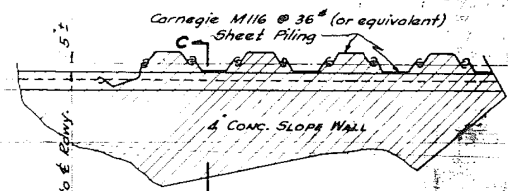
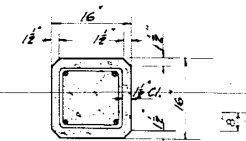
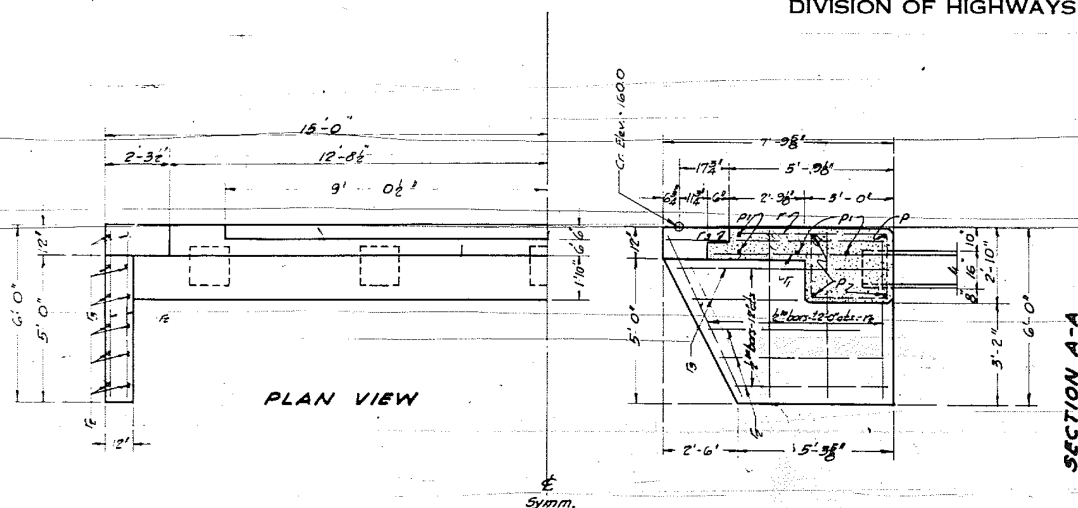
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	53
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5. A.	12 B.	Pulaski	24	23
2	12 F.	ILLINOIS	PULASKI PROJECT FAS 53/58	

SHEET NO. 6
7 SHEETS



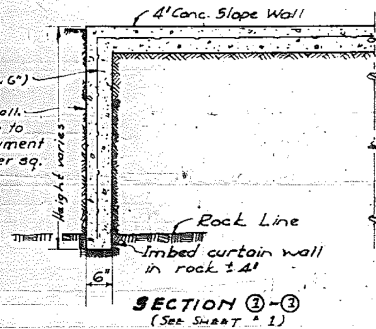
NOTES

Steel sheet piling shall be driven to depths determined by the Engineer. Carnegie M116 @ 36" or equivalent steel sheet piling shall be used. Tops of the sheet piling shall be at the slope of the Slope Wall or the surface of concrete. The steel sheet piling shall be driven with joints interlocking and alternate driving webs in and out.

BILL OF MATERIALS

BAR NO.	QTY.	UNIT	PRICE
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
47	1	1	1
48	1	1	1
49	1	1	1
50	1	1	1
51	1	1	1
52	1	1	1
53	1	1	1
54	1	1	1
55	1	1	1
56	1	1	1
57	1	1	1
58	1	1	1
59	1	1	1
60	1	1	1
61	1	1	1
62	1	1	1
63	1	1	1
64	1	1	1
65	1	1	1
66	1	1	1
67	1	1	1
68	1	1	1
69	1	1	1
70	1	1	1
71	1	1	1
72	1	1	1
73	1	1	1
74	1	1	1
75	1	1	1
76	1	1	1
77	1	1	1
78	1	1	1
79	1	1	1
80	1	1	1
81	1	1	1
82	1	1	1
83	1	1	1
84	1	1	1
85	1	1	1
86	1	1	1
87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

DETAIL OF CONCRETE PILE
35 Ton Capacity Minimum
5 Req'd. For Each Abutment.
All Piles to be driven to rock.



SECTION 3-3
(See Sheet 1)

Note: The Section 12B contractor shall drive two R.C. test piles as directed by the Engineer before casting the remainder of the Piling.

Note: The contractor for Section 12-B shall space all reinf. bars in Abut. tops so as to clear all Anchor bolts.

4' Ga. Wire mesh (W. 6")
6" concrete curtain wall.
Area of vertical face to be included for payment at the unit price per sq. yd. for slope wall.

ORIGINAL TRAC
SENT BACK
CO. SPT. H
HE DID NOT
SHEET 7 OF
1-11-6

SHEET 7
(BORING)
IS MISSING
SEE FRP
1-11-6

FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL: 04-11-11
FILE NAME: H:\0073 Pulaski Co. CUS\2025-PSE Updates\CAD Sheets\073000 24-28 SHI.XS.dgn

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184 000899

USER NAME = bchristmann
DESIGNED -
DRAWN -
PLOT SCALE = 20 0000' / in
PLOT DATE = 10/7/2025

REVISD -
REVISD -
CHECKED -
DATE -

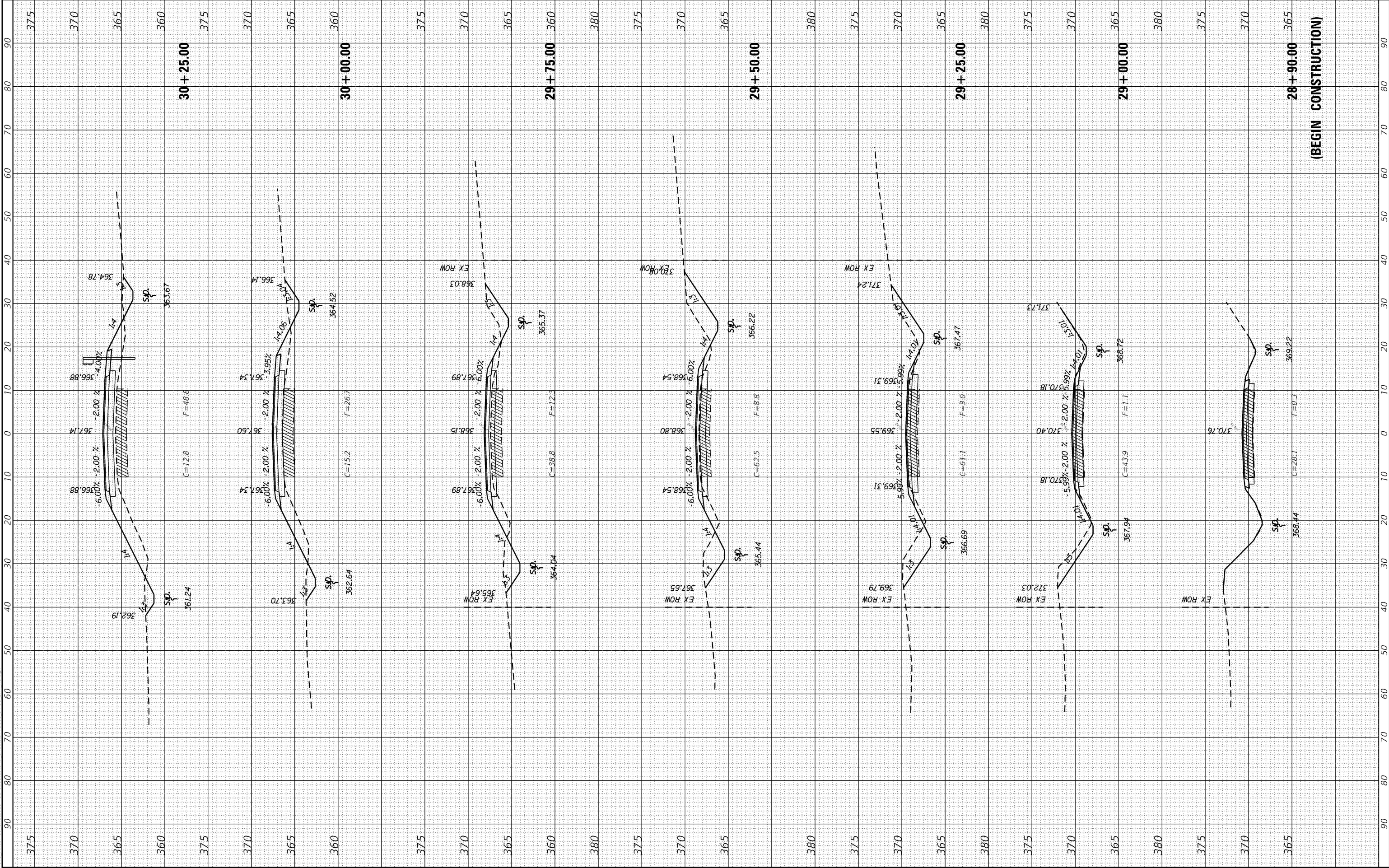
REVISD -
REVISD -
REVISD -
REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
EXISTING & PROPOSED ROADWAY

SCALE: SHEET 1 OF 5 SHEETS STA. 28+90.00 TO STA. 30+25.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	54
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default
FILE NAME: H:\0073 Pulaski\G:\CH20202-PSE Update\CAD Sheets\073000 34-28 SH1 XS.dgn

HMG
ENGINEERS
IL PROF. DESIGN FIRM NO. 184.000899

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

USER NAME = bchristmann	DESIGNED -
	DRAWN -
PLOT SCALE = 20.0000' / 1"	CHECKED -
PLOT DATE = 10/7/2025	DATE -

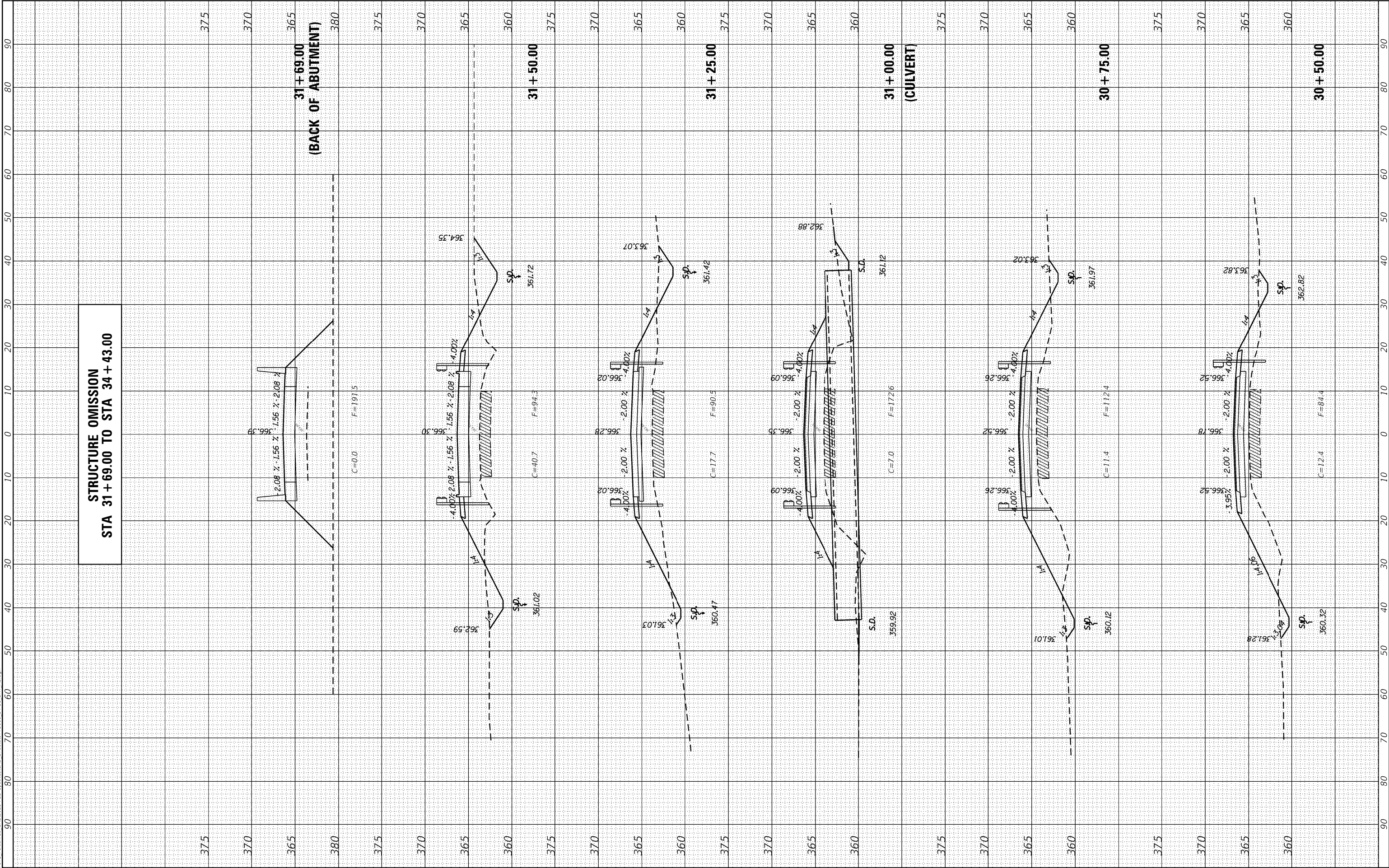
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
EXISTING & PROPOSED ROADWAY

SCALE: SHEET 2 OF 5 SHEETS STA. 30+50.00 TO STA. 31+69.00

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	55
CONTRACT NO. 99678				
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED NOTE BOOK AREAS CHECKED	BY	DATE

MODEL: Default
FILE NAME: H:\0073 Pulaski\G:\CH20202-PSE Update\CAD Sheets\073000 34-28 SH1 XS.dgn

HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184.000899

USER NAME	= bchristmann
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 10/7/2025

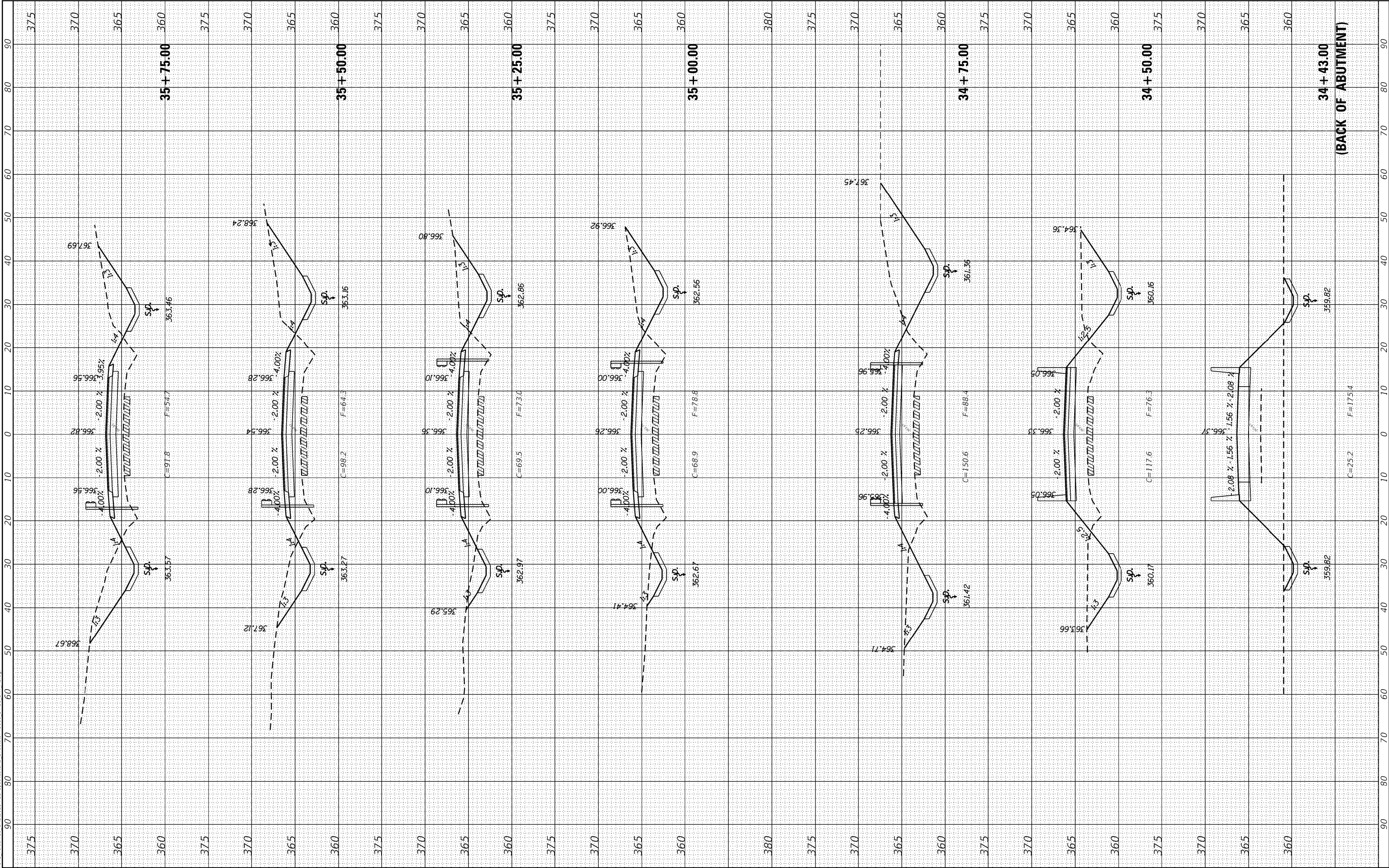
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
EXISTING & PROPOSED ROADWAY

SCALE:	SHEET 3 OF 5 SHEETS	STA. 34+43.00	TO STA. 35+75.00
--------	---------------------	---------------	------------------

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	56
CONTRACT NO. 99678				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default
FILE NAME: H:\0073_Pulaski\Co_C12\2025-PSE_Update\CAD_Sheets\073000_34-28_SHT_XS.dgn

HMG

ENGINEERS

ENGINEERS

IL PROF. DESIGN FIRM NO. 184.000899

9360 HOLY CROSS LANE

BREESE, ILLINOIS 62230

888.HMG.ENGR

HMG ENGINEERS, INC.

9360 HOLY CROSS LANE

BREESE, ILLINOIS 62230

888.HMG.ENGR

USER NAME	= bchristmann
PLOT SCALE	= 20.0000' = 1".
PLOT DATE	= 10/7/2025

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
EXISTING & PROPOSED ROADWAY

SCALE:	SHEET 5 OF 5 SHEETS	STA. 37+75.00 TO STA. 37+90.00
--------	---------------------	--------------------------------

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
937	12-00071-00-BR	PULASKI	58	58
CONTRACT NO. 99678				
		ILLINOIS	FED. AID PROJECT	

The diagram illustrates the cross-section of a roadway at two stations: 37+75.00 and 37+90.00. The vertical axis represents elevation in feet, ranging from 370 to 385. The horizontal axis represents stationing. The 'EXISTING' profile is shown as a solid line, and the 'PROPOSED' profile is shown as a dashed line. The diagram includes the following data points and features:

- Station 37+75.00:**
 - Existing Profile (SP): 370.83
 - Proposed Profile (SP): 370.72
 - Existing Right of Way (EX ROW): 372.90
 - Proposed Right of Way (EX ROW): 372.05
 - Grade: 5.99% (proposed)
 - Width: 2.00' (proposed)
 - Factor: F=0.0
- Station 37+90.00:**
 - Existing Profile (SP): 370.17
 - Proposed Profile (SP): 370.06
 - Existing Right of Way (EX ROW): 373.51
 - Proposed Right of Way (EX ROW): 372.04
 - Grade: 5.99% (proposed)
 - Width: 2.00' (proposed)
 - Factor: F=3.0

The diagram also shows the 'END CONSTRUCTION' point at station 37+90.00.